Frankfurt Book Fair Rights Guide

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The MIT Press

Contents

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View of Boston from
Cambridge, July 2023

On Disinformation

How to Fight for Truth and Protect Democracy

Lee McIntyre

A powerful, pocket-sized citizen's guide on how to fight back against the disinformation campaigns that are imperiling American democracy, from the bestselling author of *Post-Truth* and *How to Talk to a Science Denier*.

"McIntyre's latest book connects the sordid history of science denial and climate denial to today's election denial, exposing how interests exploit disinformation and work fissures in our society to weaken citizens' trust in our democracy and one another."

—Sheldon Whitehouse, U.S. Senator, Rhode Island

"In post-truth America, reality isn't dying by accident or suicide; it's being poisoned on purpose.… [McIntyre] names the culprits and exposes their methods. Even more important, he shows how to foil the crime. *On Disinformation* is the brisk, bracing primer that everyone should read on how to make America truthful again."

—Jonathan Rauch, Senior Fellow, Brookings Institution, and author of *The Constitution of Knowledge: A Defense of Truth*
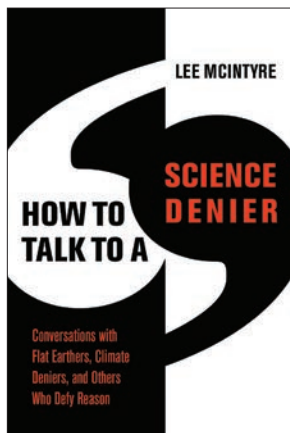
The effort to destroy facts and make America ungovernable didn't come out of nowhere. It is the culmination of seventy years of strategic denialism. In *On Disinformation*, Lee McIntyre shows how the war on facts began, and how ordinary citizens can fight back against the scourge of disinformation that is now threatening the very fabric of our society. Drawing on his twenty years of experience as a scholar of science denial, McIntyre explains how autocrats wield disinformation to manipulate a populace and deny obvious realities, why the best way to combat disinformation is to disrupt its spread, and most importantly, how we can win the war on truth.

McIntyre takes readers through the history of strategic denialism to show how we arrived at this precarious political moment and identifies the creators, amplifiers, and believers of disinformation. Along the way, he also demonstrates how today's "reality denial" follows the same flawed blueprint of the "five steps of science denial" used by climate deniers and anti-vaxxers; shows how Trump has emulated disinformation tactics created by Russian and Soviet intelligence dating back to the 1920s; provides interviews with leading experts on information warfare, counterterrorism, and political extremism; and spells out the need for algorithmic transparency from Facebook, Twitter, and YouTube. *On Disinformation* lays out ten everyday practical steps that we can take as ordinary citizens—from resisting polarization to pressuring our Congresspeople to regulate social media—as well as the important steps our government (if we elect the right leaders) must take.

Compact, easy-to-read, and never more urgent, *On Disinformation* does nothing less than empower us with the knowledge needed to save our republic from autocracy before it is too late.

Lee McIntyre is Research Fellow at the Center for Philosophy and History of Science at Boston University. He is the author of *Dark Ages: The Case for a Science of Human Behavior*, *Post-Truth*, *The Scientific Attitude: Defending Science from Denial, Fraud, and Pseudoscience*, and *How to Talk to a Science Denier* all published by the MIT Press.
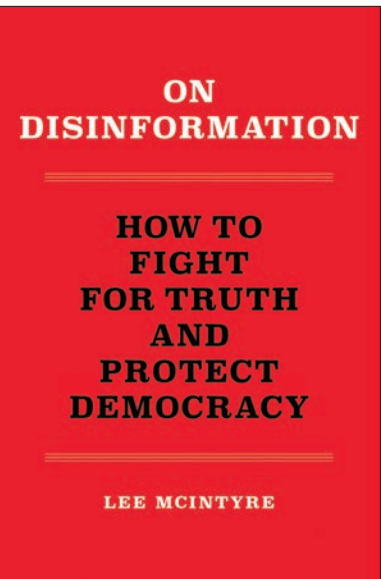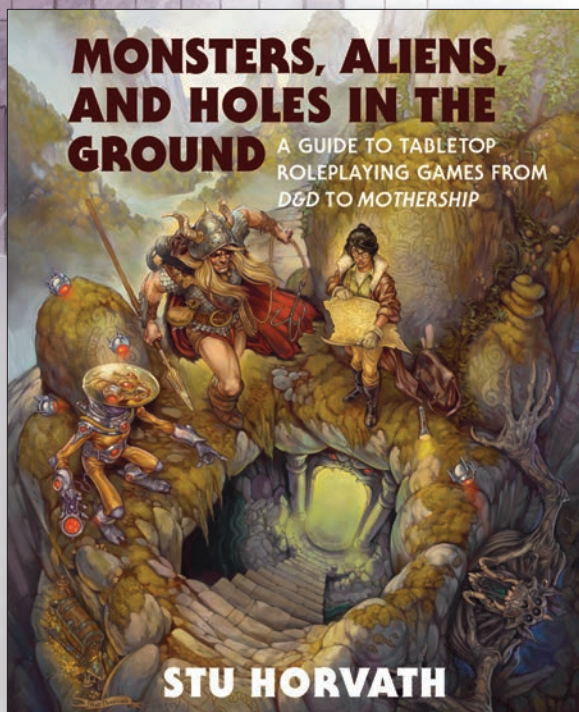
Also available

Monsters, Aliens, and Holes in the Ground

A Guide to Tabletop Roleplaying Games from *D&D* to *Mothership*

Stu Horvath

A richly illustrated, encyclopedic deep dive into the history of roleplaying games.

When Gary Gygax and Dave Arneson released *Dungeons & Dragons* in 1974, they created the first roleplaying game of all time. Little did they know that their humble box set of three small digest-sized booklets would spawn an entire industry practically overnight. In *Monsters, Aliens, and Holes in the Ground*, Stu Horvath explores how the hobby of roleplaying games, commonly known as RPGs, blossomed out of an unlikely pop culture phenomenon and became a dominant gaming form by the 2010s. Going far beyond *D&D*, this heavily illustrated tome covers more than three hundred different RPGs that have been published in the last five decades.

Monsters, Aliens, and Holes in the Ground features (among other things) bunnies, ghostbusters, soap operas, criminal bears, space monsters, political intrigue, vampires, romance, and, of course, some dungeons and dragons. In a decade-by-decade breakdown, Horvath chronicles how RPGs have evolved in the time between their inception and the present day, offering a deep and gratifying glimpse into a hobby that has changed the way we think about games and play.

A deluxe edition of this book is also available from MIT Press. The deluxe edition includes a foil-stamped cover and slipcase with a cloth binding, a ribbon, gilded edges, and an 8.5x11-inch card stock poster of the regular edition.

Stu Horvath is a writer from New Jersey. He is the founder of Unwinnable, an outlet for independent cultural criticism. He also manages the VintageRPG account on Instagram and cohosts the Vintage RPG Podcast.

"Horvath's love for the genre shines through every entry in this immaculately researched tome. It's exhaustive but not exhausting; you'll keep reading for pleasure long after you've found the info you came for."

—**Steve Jackson, perpetrator of *Munchkin***

"Stu Horvath has lovingly compiled this guide through tabletop RPG history with profound care, and I cannot wait to revisit this tome time and again!"

—**Skinner, psychedelic nightmare artist**

games
October
8 1/2 x 11, 456 pp.
349 color photos, 12 color illus.,
28 b&w illus.
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US $125.00T/$163.00 CAN cloth
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Inside the Star Factory

The Creation of the James Webb Space Telescope, NASA's Largest and Most Powerful Space Observatory

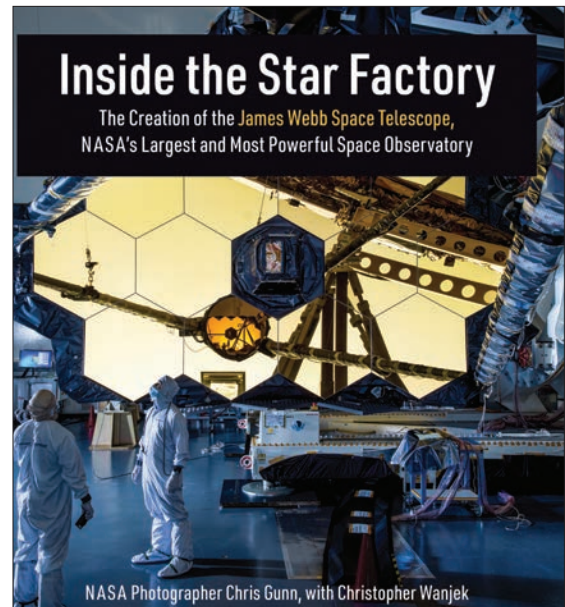**NASA Photographer Chris Gunn, with Christopher Wanjek**

A fascinating, ground-level backstage pass to the creation, launch, and reach of the James Webb Space Telescope.

NASA's James Webb Space Telescope, the world's largest orbiting astronomy observatory, is now nearly a million miles from Earth, probing the first stars and galaxies, documenting the structure and evolution of the universe, and searching for signs of life in other solar systems. In a series of extraordinary photographs, *Inside the Star Factory* tells the story of the Webb Telescope from conception to launch—a marvel of ingenuity and engineering that entailed more than 100 million people hours over a span of thirty years.

The project's lead photographer Chris Gunn was there from the start, documenting the Webb's tumultuous history—the behind-the-scenes details of its construction, from the cutting-edge technology required for an observatory operating at temperatures as low as −370°F, beyond reach for repair, to the human story of an engineering team pursuing an unprecedented goal under incomparable pressure. Derided as the "telescope that ate astronomy," billions of dollars over budget, ten years over schedule, nearly canceled twice, Webb was simply too big to fail.

Accompanied by science writer Christopher Wanjek's overview of the Webb's history and profiles of the scientists and engineers who built it, this exclusive illustrated guide shows readers the heady world of scientific discovery at the very limits of human knowledge—and the very beginning of space and time.

Chris Gunn is a photographer based in Washington, DC, who specializes in creating images of science and technology. His photographs have been featured in *Scientific American*, *Wired*, *National Geographic*, and the *New York Times*. **Christopher Wanjek** is the author of *Bad Medicine*, *Food at Work*, and the acclaimed *Spacefarers: How Humans Will Settle the Moon, Mars, and Beyond*. His work has appeared in such venues as the *Washington Post*, *Smithsonian*, and *Live Science*.

"This book is the only one you'll need on the engineering marvel that JWST truly is. From the people behind the instrument to the telescope itself, I got lost in every image of the story."

—Becky Smethurst, Royal Astronomical Society Research fellow, University of Oxford; author of *A Brief History of Black Holes*; host of "Dr. Becky" on YouTube

"Inside the clean rooms where everything happened, Gunn and Wanjek's account of the brilliant people who built Webb is as awe-inspiring as the mission itself."

—Christian Ready, Lecturer of Astronomy and Astrophysics, Towson University; host of "Launch Pad Astronomy" on YouTube

science | astronomy

October
10 x 11, 188 pp.
100 color illus.

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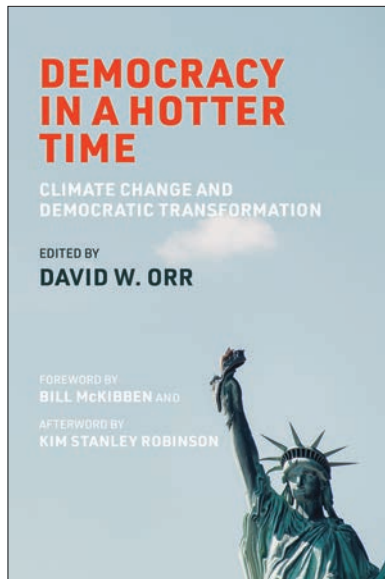
Democracy in a Hotter Time

Climate Change and Democratic Transformation

edited by David W. Orr

foreword by Bill McKibben and afterword by Kim Stanley Robinson

The first major book to deal with the dual crises of democracy and climate change as one interrelated threat and to identify a path forward.

Democracy in a Hotter Time calls for reforming democratic institutions as a prerequisite for avoiding climate chaos and adapting governance to how Earth works as a physical system. To survive in the "long emergency" ahead, we must reform and strengthen democratic institutions, making them assets rather than liabilities. Edited by David W. Orr, this vital collection of essays proposes a new political order that will not only help humanity survive but also enable us to thrive in the transition to a post–fossil fuel world.

Orr gathers leading scholars, public intellectuals, and political leaders to address the many problems confronting our current political systems. Few other books have taken a systems view of the effects of a rapidly destabilizing climate on our laws and governance or offered such a diversity of solutions. These thoughtful and incisive essays cover subjects from Constitutional reform to participatory urban design to education; together, they aim to invigorate the conversation about the human future in practical ways that will improve the effectiveness of democratic institutions and lay the foundation for a more durable and just democracy.

David W. Orr is Professor of Practice at Arizona State University and the author of eight books variously about education, climate, and ecological design, including *Design on the Edge* (MIT Press). He has been awarded nine honorary degrees and a dozen other awards, including lifetime achievement awards from the US Green Building Council and the North American Association for Environmental Education.

political science | environment

September
6 x 9, 288 pp.

US $24.95T/$33.95 CAN paperback
978-0-262-04859-0

Contibutors

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Richard Louv

James R. May

Frederick W. Mayer

Michael Oppenheimer

Wellington Reiter

Anne-Marie Slaughter

Defending Animals

Finding Hope on the Front Lines of Animal Protection

Kendra Coulter

An in-depth look at the urgent struggle to protect animals from harm, cruelty, injustice, extinction, and their greatest threat—us.

Beloved dogs and cats. Magnificent horses and mountain gorillas. Curious chickens. What do we actually do to protect animals from harm—and is it enough? This engaging book provides a unique and eye-opening exploration of the world of animal protection as people defend diverse animals from injustice and cruelty. From the streets of major US cities to remote farms and tropical forests, *Defending Animals* is a gritty and moving portrait of the real work of animal protection that takes place in communities, courtrooms, and boardrooms.

Globally recognized expert Kendra Coulter takes readers across the different landscapes of animal protection to meet people and animals of all kinds, from cruelty investigators to forensic veterinarians, wildlife rehabilitators and conservation leaders to animal lawyers and entrepreneurs, each working in their own ways to defend animals. Bringing unparalleled research and a distinct and nuanced analytical viewpoint, *Defending Animals* shows that animal protection is not only physical, intellectual, and emotional work but also a labor so rooted in empathy and care that it just might bridge the vast divide between polarized people and help create a more humane future for us all.

Kendra Coulter is Professor in Management and Organizational Studies at Huron University College at Western University and a Fellow of the Oxford Centre for Animal Ethics.

"*Defending Animals* is a compelling exploration of animal protection, challenging readers to build a more compassionate and equitable world. A powerful call to action."

—Jane Goodall, PhD, DBE, Founder of the Jane Goodall Institute & UN Messenger of Peace

nature

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3 b&w illus.

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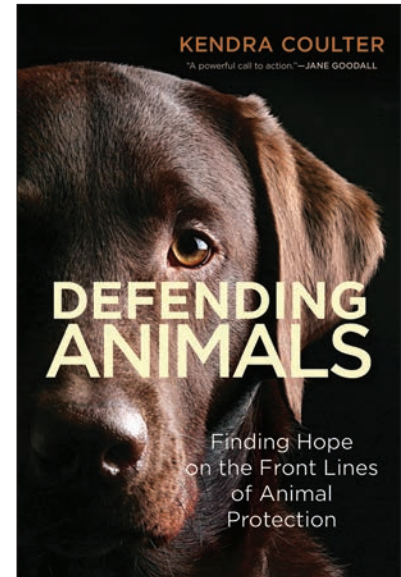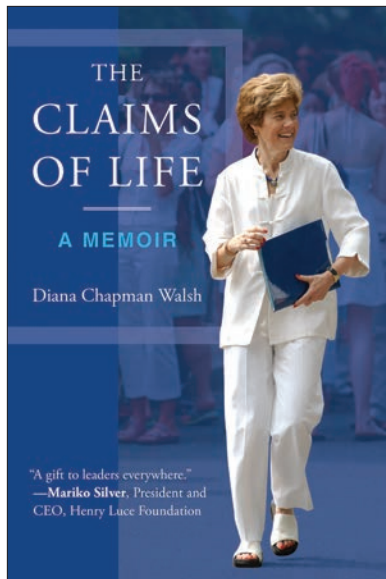
The Claims of Life

A Memoir

Diana Chapman Walsh

The engaging memoir of a legendary president of Wellesley College known for authentic and open-hearted leadership, who drove innovation with power and love.

The Claims of Life traces the emergence of a young woman who set out believing she wasn't particularly smart but went on to meet multiple tests of leadership in the American academy—a place where everyone wants to be heard and no one wants a boss. In college, Diana Chapman met Chris Walsh, who became a towering figure in academic science. Their marriage of fifty-seven years brought them to the forefront of revolutions in higher education, gender expectations, health care delivery and biomedical research.

The Claims of Life offers readers an unusually intimate view of trustworthy leadership that begins and ends in self-knowledge. During a transformative fourteen-year Wellesley presidency, Walsh advanced women's authority, compassionate governance, and self-reinvention. After Wellesley, Walsh's interests took her to the boards of five national nonprofits galvanizing change. She kept counsel with Nobel laureates, feminist icons, and even the Dalai Lama, seeking solutions to the world's climate crisis.

With an ear tuned to social issues, *The Claims of Life* is an inspiring account of a life lived with humor, insight, and meaning that will surely leave a lasting impression on its readers.

Diana Chapman Walsh is President Emerita of Wellesley College, and an emerita member of the governing boards of MIT and Amherst College. She was a trustee of the Kaiser Family Foundation, the Institute for Healthcare Improvement, and the Mind and Life Institute, and she also chaired the Broad Institute's inaugural board and cofounded the Council on the Uncertain Human Future. She is the author, coauthor, and editor of numerous books, including *Corporate Physicians: Between Medicine and Management*.

memoir | higher education

November
6 x 9, 360 pp.
15 b&w photos
US $34.95T/$45.95 CAN cloth
978-0-262-04849-1

"Diana Chapman Walsh's clear-sighted self-awareness gives us both a compelling personal memoir and an insightful guide to leadership. It is a pleasure to read."

—Drew Gilpin Faust, Arthur Kingsley Porter University and Professor President Emerita of Harvard University
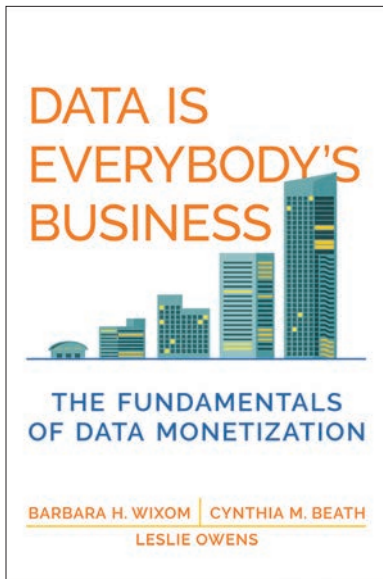
Data Is Everybody's Business

The Fundamentals of Data Monetization

Barbara H. Wixom, Cynthia M. Beath, and Leslie Owens

A clear, engaging, evidence-based guide to monetizing data, for everyone from employee to board member.

Most organizations view data monetization—converting data into money—too narrowly: as merely selling data sets. But data monetization is a core business activity for both commercial and noncommercial organizations, and, within organizations, it's critical to have wide-ranging support for this pursuit. In *Data Is Everybody's Business*, the authors offer a clear and engaging way for people across the entire organization to understand data monetization and make it happen. The authors identify three viable ways to convert data into money—improving work with data, wrapping products with data, and selling information offerings—and explain when to pursue each and how to succeed.

Ideal for organizations engaged in data literacy training, data-driven transformation, or digital transformation, *Data Is Everybody's Business* is the essential guide for helping everybody in the organization—not just the data specialists—understand, get excited about, and participate in data monetization.

Barbara H. Wixom is Principal Research Scientist at the MIT Sloan Center for Information Systems Research (MIT CISR), founder of the MIT CISR Data Research Advisory Board, and faculty director for the MIT Sloan Executive Education online short course Data Monetization Strategy. **Cynthia M. Beath** is Professor Emerita at the McCombs School of Business, University of Texas at Austin. Before embarking on her academic career, she worked in private industry in several information systems development and consulting positions. **Leslie Owens** is the former Executive Director of MIT CISR and Senior Lecturer at the MIT Sloan School of Management. Previously she was Vice President and Research Director at Forrester Research, and a manager at Abbott.

"How much do startups matter for the dynamism of the economy? Using the best new data, *The Promise and Peril of Entrepreneurship* offers comprehensive answers that will be required reading for policy makers and researchers."

—David Card, Professor, UC Berkeley; co-recipient of 2021 Nobel memorial prize in economics

Key features of the book:

- **Grounded in twenty-eight years of academic research, including nine years of research at the MIT Sloan Center for Information Systems Research (MIT CISR)**

- **Definitions of key terms, self-reflection questions, appealing graphics, and easy-to-use frameworks**

- **Rich with detailed case studies**

- **Supplemented by free MIT CISR website resources (cisr.mit.edu)**

Diversity Dividend

The Transformational Power of Small Changes
to De-bias Your Company, Attract Diverse Talent,
Manage Everyone Better—and Make More Money

Paola Cecchi-Dimeglio

**From entry-level to the boardroom, how
to create large-scale change in organizations
looking to accelerate their diversity, equity, and
inclusion efforts and reap financial benefits.**

"A must-read for anyone striving to
improve gender and racial diversity."

**—Iris Bohnet, Professor,
Harvard University, author
of *What Works: Gender Equality by
Design***

"This timely masterpiece is a game-
changing resource for making a real
impact."

**—Francesca Daverio,
Head of Office, Legal Vice
Presidency, World Bank**

Every leader endeavors to invest in and manage their key
asset—talent—to be as high-performing as possible. Like
a winning stock, successful diversity, equity, and inclusion
(DEI) actions pay back over time. That dividend is
paid both to the company—through not only higher
performance, but talent acquisition, training, and other
savings—and to society in general. In *Diversity Dividend*,
Paola Cecchi-Dimeglio offers a fresh, detailed look at
just how to realize gender and racial equity along the
company-employee pathway—from attracting and
interviewing applicants to onboarding, promoting, and
sustaining hires—and how to remove systemic barriers
at the organizational level that prevent women and
underrepresented groups from advancing.

While other books have delved into DEI and the
challenges inherent in sustaining successful efforts, no
book has done so in concert with the depth and scope of
data, basis in science, and application in the real world.
In *Diversity Dividend*, Cecchi-Dimeglio artfully combines
accessible anecdotal cases—where success was achieved
or where, despite best intentions and efforts, things did
not go as expected—with scientifically rigorous solutions
as well as applications of data and big data.

As empowering as it is comprehensive, *Diversity
Dividend* helps remove the guesswork and near
superstition that naturally arise when some methods
work and others fail, thereby giving leaders the tools and
insight to make informed choices at the right moments to
create lasting change.

Paola Cecchi-Dimeglio is Faculty Chair of the Executive
Leadership Research Initiative for Women and Minority Attorneys
(ELRIWMA) and affiliated faculty at Harvard Law School (Center
on the Legal Profession) and Harvard Kennedy School in the
Women and Public Policy Program (WAPPP).
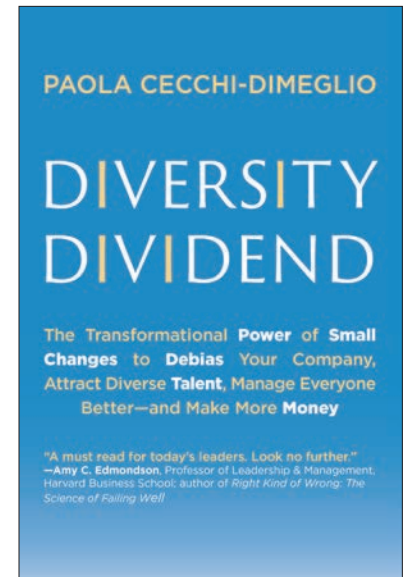
business

September
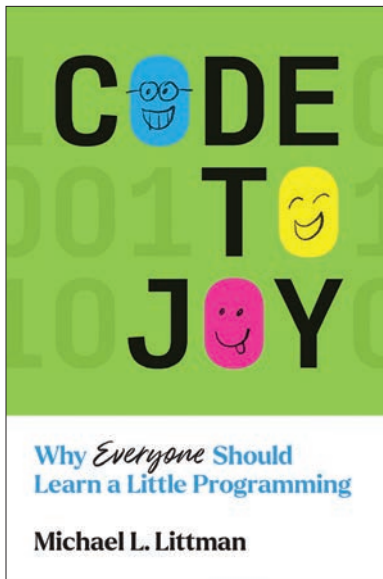6 x 9, 264 pp.
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Code to Joy

Why Everyone Should Learn a Little Programming

Michael L. Littman

How we can get more joy from our machines by telling them what our hearts desire.

In this informative, accessible, and very funny book, Michael Littman inspires readers to learn how to tell machines what to do for us. Rather than give in to the fear that computers will steal our jobs, spy on us, control what we buy and whom we vote for, we can improve our relationship with them just by learning basic programming skills. Our devices will help us, Littman writes, if we can say what we want in a way they can understand.

Each chapter of the book focuses on a particular element of what can be said, providing examples of how we use similar communication in our daily interactions with people. Littman offers ways readers can experiment with these ideas right away, using publicly available systems that might also make us more productive as a welcome side effect. Each chapter also reflects on how the use of these programming components can be expedited by machine learning. With humor and teacherly guidance, *Code to Joy* brings into view a future where programming is like reading— something everyone can learn.

Michael L. Littman is University Professor of Computer Science at Brown University and holds an adjunct position with the Georgia Institute of Technology College of Computing. He was selected by the American Association for the Advancement of Science as a Leadership Fellow for Public Engagement with Science in Artificial Intelligence.

A Heart Afire

Helen Brooke Taussig's Battle Against Heart Defects, Unsafe Drugs, and Injustice in Medicine

Patricia Meisol

A deeply compelling biography of the pioneering children's heart doctor Helen Taussig, who helped start heart surgery and became a global force against preventable suffering.

In *A Heart Afire*, Patricia Meisol renders a moving portrait of the indomitable pediatrician and global patient activist Helen Taussig (1898–1986), who famously gathered and publicized evidence linking thalidomide to birth defects, leading to US drug safety laws. Taussig also developed the Blalock-Taussig shunt (along with Alfred Blalock) for infants with congenital heart defects. Spanning Taussig's childhood in Boston, her struggle with dyslexia, her progressive hearing loss, her research contributions, and the founding of her own fledgling children's heart clinic, this book chronicles Taussig's ambition, tenacity, and formidable work ethic. As Meisol shows, Taussig not only saved lives, but also set a bold precedent for other women doctors in the twentieth century, who were largely excluded from medicine.

Meticulously researched and intimately told, *A Heart Afire* is unique in its use of a fifty-year-long campaign by Taussig's followers for a worthy memorial portrait and shows how views of women doctors have evolved. Meisol reveals Taussig as an authentic American hero, one who embodies the Emersonian ethic of developing oneself, following the processes of nature, and serving the public. A fiercely independent thinker, Taussig infused herself and her ideas into the medical culture, paving the way not only for other professional women but also for patients then and now to advocate for themselves. Offering an indispensable look at health care as a universal human right, *A Heart Afire* is a beacon and a blueprint for creating a more just and compassionate world of medicine.

Patricia Meisol is a narrative nonfiction writer and essayist who has been nominated for the Pulitzer Prize multiple times. She previously served in the US Department of Health and Human Services.

biography | medicine

December
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5 b&w illus.

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978-0-262-04852-1

Mondrian's Dress

Yves Saint Laurent,
Piet Mondrian, and Pop Art

**Nancy J. Troy and
Ann Marguerite Tartsinis**

An extraordinary look at how the style of Piet Mondrian's abstract paintings was posthumously appropriated by 1960s fashion, Pop art, and consumer culture.

Yves Saint Laurent's 1965 Mondrian dresses are among the twentieth century's most celebrated and recognizable fashions, but the context of their creation involves much more than meets the eye. In *Mondrian's Dress*, Nancy Troy and Ann Marguerite Tartsinis offer a fresh approach to the coupling of Piet Mondrian's interwar paintings with Saint Laurent's couture designs by exposing the rampant merchandising and commodification that these works experienced in the 1960s. The authors situate the consolidation of Saint Laurent's fashion brand alongside the work of such Pop artists as Roy Lichtenstein, Andy Warhol, and Tom Wesselmann, and show how conventional understandings of Mondrian's avant-garde abstractions were transformed by the mass circulation of his signature style.

Beyond its attention to 1960s fashion, Pop art, and consumer culture, *Mondrian's Dress* offers critical assessments of Saint Laurent's so-called dialogue with art, the remarkable art collection that he built with his partner Pierre Berge, and the crucial role that photography plays in the marketing of couture. The first book-length study of its kind, *Mondrian's Dress* is a provocative reevaluation of how art, commerce, and fashion became fundamentally intertwined in the postwar period.

Nancy J. Troy is Victoria and Roger Sant Professor in Art Emerita at Stanford University. She is the author of *Couture Culture*, *Architecture and Cubism* (edited with Eve Blau), and *The De Stijl Environment* (all published by the MIT Press), among other books on twentieth-century art and visual culture. **Ann Marguerite Tartsinis** is a scholar of twentieth-century American art, craft, and design. From 2010 to 2016, she was Associate Curator at the Bard Graduate Center and is the author of *An American Style: Global Sources for New York Textile and Fashion Design, 1915–1928*.
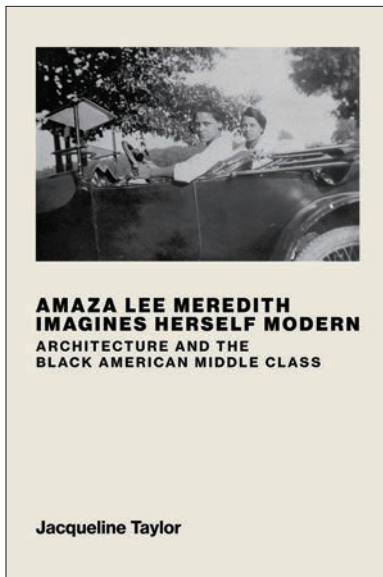
Amaza Lee Meredith Imagines Herself Modern

Architecture and the Black American Middle Class

Jacqueline Taylor

The extraordinary life and work of architect Amaza Lee Meredith, and the role modernism and material culture played in the aspiring Black American middle class of the early twentieth century.

Amaza Lee Meredith Imagines Herself Modern tells the captivating story of Amaza Lee Meredith, a Black woman architect, artist, and educator born into the Jim Crow South, whose bold choices in both life and architecture expand our understanding of the Great Migration and the Harlem Renaissance, while revealing the importance of architecture as a force in Black middle-class identity. Through her charismatic protagonist, Jacqueline Taylor derives new insights into the experiences of Black women at the forefront of culture in early twentieth-century America, caught between expectation and ambition, responsibility and desire.

Central to Taylor's argument is that Meredith's response to modern architecture and art, like those of other Black cultural producers, was not marginal to the modernist project; instead, her work reveals the tensions and inconsistencies in how American modernism has been defined. In this way, the book shines a necessary light on modernism's complexity, while overturning perceived notions of race and gender in relation to the modernist project and challenging the notion of the white male hero of modern architecture.

Jacqueline Taylor is an award-winning researcher and writer who focuses on the built environment and art with specific reference to issues of race and gender. She has worked in public practice and academe and has published widely in edited volumes and anthologies, including *Southern Cultures* and *Suffragette City: Women, Politics, and the Built Environment.*

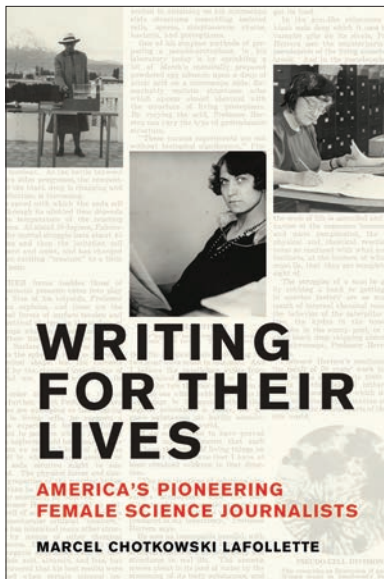architecture | biography

November
6 1/4 x 9 1/2, 320 pp.
67 b&w illus., 18 color plates

US $39.95T/$53.95 CAN cloth
978-0-262-04834-7

Amaza Lee Meredith

Writing for Their Lives

America's Pioneering Female Science Journalists

Marcel Chotkowski LaFollette

A breathtaking history of America's trailblazing female science journalists—and the timely lessons they can teach us about equity, access, collaboration, and persistence.

In *Writing for Their Lives*, Marcel Chotkowski LaFollette tells the stories of women who pioneered the nascent profession of science journalism from the 1920s through the 1950s, yet were overlooked in traditional histories of science and journalism. But, at a time when science, medicine, and the mass media were expanding dramatically, Emma Reh, Jane Stafford, Marjorie Van de Water, and many others were explaining theories, discoveries, and medical advances to millions of readers via syndicated news stories, weekly columns, weekend features, and books—and they deserve the recognition they have long been denied.

Grounded in extensive archival research and enlivened by passages of original correspondence, *Writing for Their Lives* addresses topics such as censorship, peer review, and news embargoes, while also providing intimate glimpses into the personal lives and adventures of mid-twentieth-century career women. They were single, married, or divorced; mothers with childcare responsibilities; daughters supporting widowed mothers; urban dwellers who lived through, and wrote about, the Great Depression, World War II, and the dawn of the Atomic Age—all the while, daring to challenge the arrogance and misogyny of the male scientific community in pursuit of information that could serve the public.

Written at a time when trust in science is at a premium, *Writing for Their Lives* is an inspiring untold history that underscores just how crucial dedicated, conscientious journalists are to the public understanding and acceptance of scientific guidance and expertise.

Marcel Chotkowski LaFollette is an independent historian. She is also Research Associate at the Smithsonian Institution Archives and the author of *Science on the Air* and *Science on American Television*.

science

August
6 x 9, 280 pp.
29 b&w illus.

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"With wit, sharp analysis, and compelling documentation, Marcel Chotkowski LaFollette reveals the multidimensional lives of tough-minded and doggedly persistent women in science journalism between the 1920s and the 1960s."

—Sally Gregory Kohlstedt, Professor, University of Minnesota; author of *Women, Gender, and Science*

Feminist Designer

On the Personal and the Political in Design

edited by Alison Place

A bold and timely collection that brings feminist theory and critical thinking to life through vital, approachable design methods and practices.

Feminist Designer brings together a constellation of voices and perspectives to examine the intersection of design and feminist theory. For decades, the feminist refrain within design has hinged on the representation and inclusion of women in the field. This collection, edited by Alison Place, however, is a call to move beyond this narrow application of a feminist lens. Feminist design is not just about who does design—it is about how we do design and why. Feminist frameworks for design activism are now more relevant than ever, as they emphasize collaborative processes that aim to disrupt and dismantle power hierarchies while centering feminist ways of knowing and doing.
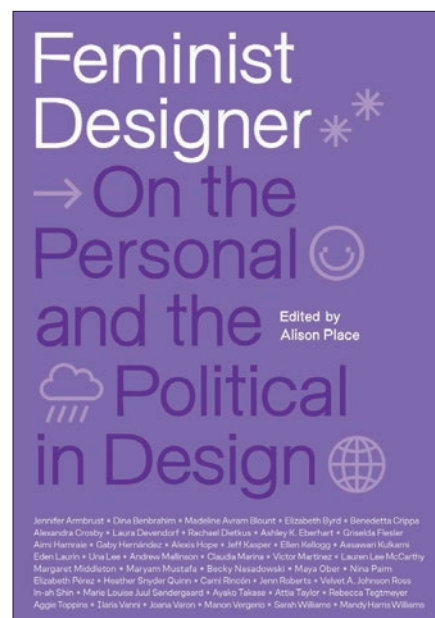
The first book in nearly three decades to address feminist practices in design, *Feminist Designer* contains essays, case studies, and dialogues by 43 contributors from 16 different countries. It engages a wide variety of design disciplines, from graphic design to disability design to algorithmic design, and explores key feminist themes, such as power, knowledge, care, plurality, liberation, and community. Through diverse, sometimes conflicting, intersectional perspectives, this book contributes new design methods informed by a multiplicity of feminisms that confront design's patriarchal origins while ushering in new pathways for making critical and meaningful change.

Alison Place is a designer, educator, and researcher who practices feminism through design. She is Assistant Professor of Graphic Design in the School of Art at the University of Arkansas.

design

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Our Ancient Lakes

A Natural History

Jeffrey McKinnon

The unexpected diversity, beauty, and strangeness of life in ancient lakes—some millions of years old—and the remarkable insights the lakes are yielding about the causes of biodiversity.

Most lakes are less than 10,000 years old and short-lived, but there is a much smaller number of ancient lakes, tectonic in origin and often millions of years old, that are scattered across every continent but Antarctica: Baikal, Tanganyika, Victoria, Titicaca, and Biwa, to name a few. Often these lakes are filled with a diversity of fish, crustaceans, snails, and other creatures found nowhere else in the world. In *Our Ancient Lakes*, Jeffrey McKinnon introduces the remarkable living diversity of these aquatic bodies to the general reader and explains the surprising, often controversial, findings that the study of their faunas is yielding about the formation and persistence of species.

The first single-authored volume to synthesize studies of ancient lakes, *Our Ancient Lakes* provides an overview of the lakes and their distinctive geological origins; accounts of the evolutionary processes that have generated the incredible diversity found in the lakes and produced some of the fastest speciation rates known for vertebrates; the surprisingly important role of inter-species mating in the most rapid diversifications; the uniquely complete records of the creatures that inhabited the lakes, which are being extracted from deep lake sediments; the prospects for the lakes as we tumble into the Anthropocene; and much more.

Shining a light on a class of biodiversity hotspot that is equivalent to coral reefs in the ocean or tropical rainforests on land, *Our Ancient Lakes* chronicles in a refreshingly personal and accessible way the often singular wonders of these venerable waterbodies.
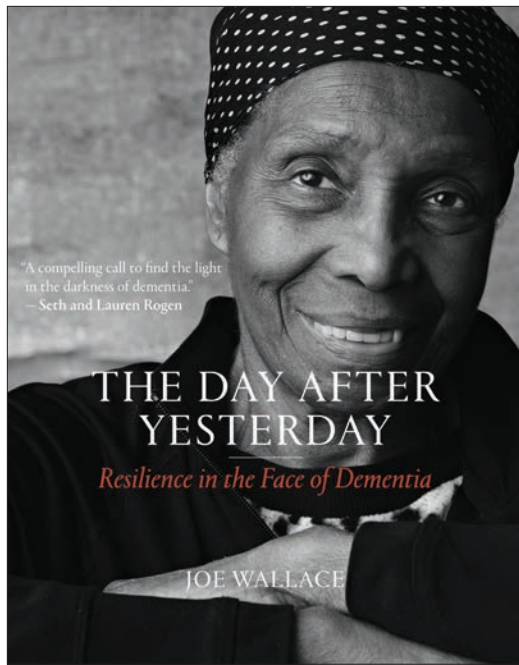
Jeffrey McKinnon received his BSc from the University of British Columbia and his PhD from Harvard University. A Professor of Biology at East Carolina University, his research has taken him to every continent but Antarctica and has appeared in journals including *Nature* and the *American Naturalist*.
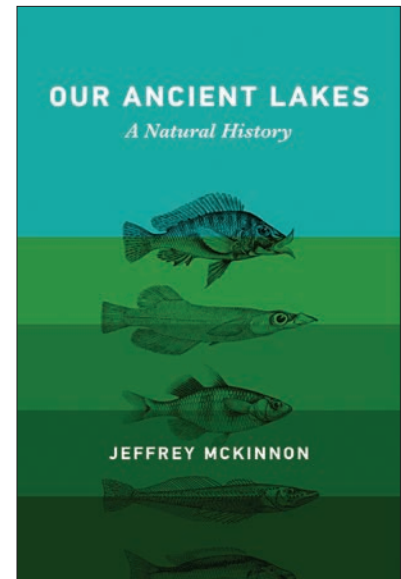
The Day after Yesterday

Resilience in the Face of Dementia

Joe Wallace

A deft combination of narrative and portraiture that breaks the taboo around dementia, replacing the fear and futility with empathy and nuance.

A graphic designer, a writer, a public servant, a retired PhD, a 29-year-old with early-onset Alzheimer's. These are just some of the 50 million people living with dementia who share their deeply personal stories with Joe Wallace in *The Day after Yesterday*, a powerful collection of portraits and personal stories that humanizes the millions of people living with the disease. Each story in this poignant volume offers a unique and powerful lesson—not just about how to live with a terminal illness, but how to do so with resilience and dignity.

Dementia is often a taboo subject with limited public awareness or discourse. A diagnosis can become a mechanism for segregating those affected from society, making it easier to see only the label and not the individual, which, in turn, makes it easier to ignore the burgeoning health crisis and the individuals themselves. But as one man told Wallace, "Don't believe the narrative that life is over. I want my voice to help get people to treat us the same as they did before we got the diagnosis. We may change some, but we are the same people!" More than a visual representation, *The Day after Yesterday*'s compassionate portraits capture the dignity and richness of each individual, destigmatizing dementia and enabling a loving, respectful, and much-needed conversation.

Joe Wallace has been a portrait photographer and storyteller for twenty years. Honing his storytelling skills in advertising, his photo-narrative work blends his journalistic eye with his fine art sensibility. Several members of his family have lived with dementia, compelling him to tell a more complex and honest story of those living with the disease.

Memory, Edited

Taking Liberties with History

Abby Smith Rumsey

An exploration of historical memory and networks of meaning in the context of today's crises of extremism and polarization.

As authoritarianism continues to rise around the world, the stories we tell ourselves about what has happened and what is happening become ever more relevant. In *Memory, Edited*, Abby Smith Rumsey examines collective memory, how it binds us, and how it can be used by bad actors to manipulate us. Bringing forward the voices of a rich cast of Eastern European artists from the past two hundred years—from Fyodor Dostoevsky to Gerhard Richter—Rumsey shows how their work and lives illustrate the devastation wrought by regimes dependent on entrenched lies to survive. Not only does this hijacking of the narrative polarize communities, but it also hijacks our future.

Through an interdisciplinary lens that includes the best thinking from history, the arts, cognitive science, psychology, and political philosophy, Rumsey lays bare our narratives, showing how they are constructed and how they have changed over time. Ever-aware of resisting the false promise of utopia, Rumsey argues that only by confronting the past and reckoning with the crimes that were committed can we ever hope to heal and gain self-knowledge. *Memory, Edited* is an indispensable text for anyone who cares about democracy, equality, and freedom in our current age of crisis.

Abby Smith Rumsey is an intellectual and cultural historian. She chairs the board of the Center for Advanced Study in the Behavioral Sciences and is the author of *When We Are No More: How Digital Memory Is Shaping Our Future*.

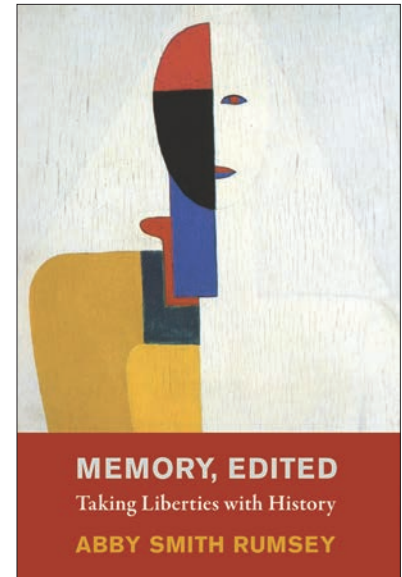"This riveting book has clear implications for how we arrive at our current states of belief. An extraordinarily suggestive book, it must be widely read."

—John Seely Brown, former Chief Scientist, Xerox Corporation; former Director of Palo Alto Research Center (PARC)

R.U.R. and the Vision of Artificial Life

Karel Čapek

edited by Jitka Čejková

A new translation of Karel Čapek's play *R.U.R.* — which famously coined the term "robot"—and a collection of essays reflecting on the play's legacy from scientists and scholars who work in artificial life and robotics.

"R.U.R." and the Vision of Artificial Life offers a new, highly faithful translation by Štěpán Šimek of Czech novelist, playwright, and critic Karel Čapek's play *R.U.R.: Rossum's Universal Robots*, as well as twenty essays from contemporary writers on the 1920 play. *R.U.R.* is perhaps best known for first coining the term "robot" (in Czech, robota means serfdom or arduous drudgery). The twenty essays in this new English edition, beautifully edited by Jitka Čejková, are selected from *Robot 100*, an edited collection in Czech with perspectives from 100 contemporary voices that was published in 2020 to celebrate the hundredth anniversary of the play.

Čapek's robots were autonomous beings, but biological, not mechanical, made of chemically synthesized soft matter resembling living tissue, like the synthetic humans in *Blade Runner*, *Westworld*, or *Ex Machina*. The contributors to the collection—scientists and other scholars—explore the legacy of the play and its connections to the current state of research in artificial life, or ALife. Throughout the book, it is impossible to ignore Čapek's prescience, as his century-old science fiction play raises contemporary questions with respect to robotics, synthetic biology, technology, artificial life, and artificial intelligence, anticipating many of the formidable challenges we face today.

Jitka Čejková is Associate Professor in the Chemical Robotics Laboratory at the University of Chemistry and Technology Prague. Her research focuses on how chemical engineers can contribute to artificial life research. **Karel Čapek** (1890–1938) was a Czech novelist, short story writer, playwright, and essayist best known for his dystopian works. He was the author of *War with the Newts*, *The Makropulos Affair*, *The Absolute at Large*, *The White Disease*, and many other notable works.

science fiction | drama

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Communications Breakdown

SF Stories about the Future of Connection

edited by Jonathan Strahan

An exciting science fiction collection that looks at what future communication might look like and how our shifting relationships with technology could change this most human of capabilities.

In *Communications Breakdown*, award-winning editor Jonathan Strahan asks some of the world's best science fiction writers to consider how the very idea of communication might change in the future. Rich terrain for speculation, this anthology brims with human stories about the future face of our age-old need to connect. As cyberpunk pioneer William Gibson said, "The future is already here—it's just not evenly distributed." So what happens when inequalities keep the future from everyone's front door? Who is in control? These stories show humanity's ability to construct the best possible worlds while also battling our potential to inflict unlimited harm.

Communications Breakdown features contributions from Canadian Science Fiction and Fantasy Hall of Famer Cory Doctorow, the winner of the Times of India AutHer Award Lavanya Lakshminarayan, Hugo Award winner Ian McDonald, as well as an interview with digital privacy activist Chris Gilliard by author and journalist Tim Maughan. Breaking down how we think about communication, *Communications Breakdown* calls readers to look at how vulnerable our modes of communication—and indeed, we ourselves—are.

Jonathan Strahan is the editor of *Tomorrow's Parties: Life in the Anthropocene* (MIT Press). He is also the reviews editor for *Locus*, a consulting editor for Tor.com, and cohost and producer of the Hugo-winning *Coode Street Podcast*.

Contributors

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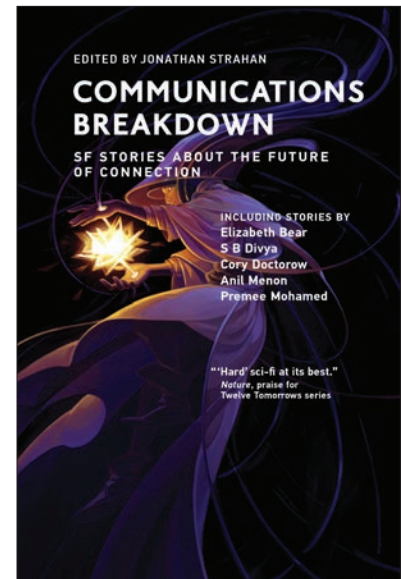
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Cory Doctorow

Chris Gilliard

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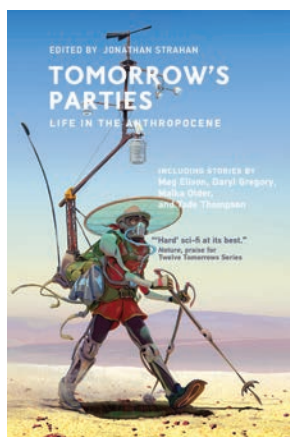
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Also available

978-0-262-54443-6

More Voices from the Radium Age

edited by Joshua Glenn

introduction by Joshua Glenn

An essential collection of proto–science fiction stories that reveals the diverse literary milieu out of which the sci fi genre emerged.

A planetary escape pod, an alien body-snatcher, an underground Alaskan city, and a war between the sexes in Atlantis! These are just a few of the outré elements you'll find in *More Voices from the Radium Age*, a showcase of proto–science fiction edited and introduced by Joshua Glenn. This volume brings together well-known and lesser-known writers in an inclusive collection that features E. Nesbit and May Sinclair, two of the genre's first female writers.

More Voices from the Radium Age also introduces readers to writers who have fallen into obscurity, including proto–sf pioneer George C. Wallis, the Russian Symbolist Valery Bryusov, and "weird" horror master Algernon Blackwood. It also includes H.G. Wells, who continued to make startling predictions in the early twentieth-century, and Abraham Merritt and George Allan England, two of the biggest names in the era of the pulp scientific romance.

An essential collection for any sci fi fan, *More Voices from the Radium Age* is a wild and darkly cathartic ride through the anxieties, fantasies, and nightmares that ultimately shaped the genre we now know as science fiction.

Joshua Glenn is a consulting semiotician and editor of the websites HiLobrow and Semiovox. The first to describe 1900–1935 as science fiction's "Radium Age," he is editor of the MIT Press's series of reissued proto-sf stories from that period. He is coauthor and coeditor of various books including the family activities guide *Unbored* (2012), *The Adventurer's Glossary* (2021), and *Lost Objects* (2022). In the 1990s, he published the indie intellectual journal *Hermenaut*.

science fiction

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Radium Age series

The Napoleon of Notting Hill

G.K. Chesterton

introduction by Madeline Ashby

A satire set in a future England, in which a neomedievalist contest among London neighborhoods takes a disastrous turn.

When Auberon Quin, a prankster nostalgic for Merrie Olde England, becomes king of that country in 1984, he mandates that each of London's neighborhoods become an independent state, complete with unique local costumes. Everyone goes along with the conceit until young Adam Wayne, a born military tactician, takes the game too seriously . . . and becomes the Napoleon of Notting Hill. War ensues throughout the city—fought with sword and halberd!

G. K. Chesterton (1874–1936) was an English author, poet, critic, and newspaper columnist known for his brilliant, epigrammatic paradoxes. His best-known character is the priest-detective Father Brown, featured in over fifty stories published between 1910 and 1936, who solves mysteries and crimes thanks to his understanding of spiritual and philosophic truths; and his best-known novel is *The Man Who Was Thursday* (1908), a metaphysical thriller. In addition to *The Napoleon of Notting Hill*, his first novel, he wrote several other near-future satires of England.

"More modern than the moderns, more medieval than the medievalists, funnier than all of them—reading Chesterton today is like watching someone give a speech of unimpeachable common sense from the bridge of a departing UFO."

— James Parker, *The Atlantic*

"A vastly entertaining book, which should be breathlessly enjoyed at Notting Hill and elsewhere."
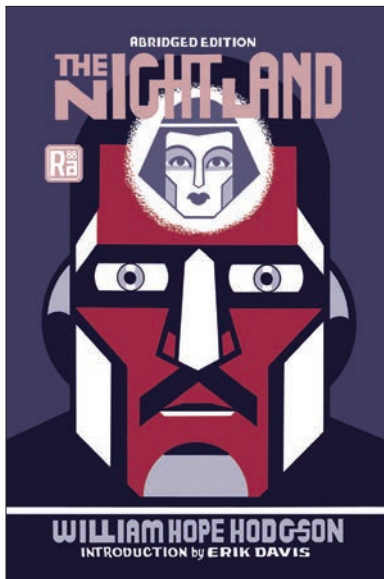
—*Daily Chronicle* (1904)

The Night Land

abridged edition

William Hope Hodgson

introduction by Erik Davis

A romance of the far future, in which humankind has relocated underground, where it is beset by monsters from another dimension—but love leads on.

In the far future, humankind's survivors huddle below Earth's frozen surface in a pyramidal fortress-city that, for centuries now, has been under siege by loathsome "Ab-humans," enormous slugs and spiders, and malevolent "Watching Things" from another dimension. When our unnamed protagonist receives a telepathic distress signal from a woman whom (in a previous incarnation) he'd once loved, he sallies forth on an ill-advised rescue mission—into the fiend-haunted Night Land!

"Like certain rare dreams," C. S. Lewis wrote of Hodgson's masterpiece, *The Night Land* can give "sensations we never had before and enlarge our conception of the range of possible experience." H. P. Lovecraft agreed that this is "one of the most potent pieces of macabre imagination ever written."

William Hope Hodgson (1877–1918) was an English poet, sailor, bodybuilder, and weird fiction pioneer whose horror, fantastic, and proto-sf novels—in addition to *The Night Land*—include *The Boats of the "Glen Carrig"* (1907), *The House on the Borderland* (1908), and *The Ghost Pirates* (1909). He also wrote stories in the Sargasso Sea series, the Captain Gault series, and a series about the occult detective Carnacki.

science fiction

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Radium Age series

"For all its flaws and idiosyncrasies, *The Night Land* is utterly unsurpassed, unique, astounding. A mutant vision like nothing else there has ever been."

—China Miéville

"The author's descriptions of the outer darkness of the eternal night and the horrors abounding therein produce a weird and fantastic impression."

—*The Athenaeum* (1912)

Times Square Remade

The Dynamics of Urban Change

Lynne B. Sagalyn

The illuminating evolution of the iconic space of Times Square.

What is it about Times Square that has inspired such attention for well over a century? And how is it that, despite its many changes of character, the place has maintained a unique hold on our collective imagination? In this book, which comes twenty years after her widely acclaimed *Times Square Roulette*, Lynne Sagalyn masterfully tells the story of profound urban change over decades in the symbolic space that is New York City's Times Square. Drawing on the history, sociology, and political economy of the place, *Times Square Remade* examines how the public-private transformation of 42nd Street at Times Square impacted the entertainment district and adjacent neighborhoods, particularly Hell's Kitchen.

Sagalyn chronicles the earliest halcyon days of 42nd Street and Times Square as the nexus of speculation and competitive theater building as well as its darkest days as vice central, and on to the years of aggressive government intervention to cleanse West 42nd Street of pornography and crime. Thematically, the author analyzes the three main forces that have shaped and reshaped Times Square—theater, real estate, and pornography—and explains the politics and economics of what got built and what has been restored or preserved.

Accompanied by nearly 160 images, more than half in color, *Times Square Remade* is a deftly woven narrative of urban transformation that will appeal as much to the general reader and New York City enthusiast as to urbanists, city planners, architects, urban designers, and policymakers.

Lynne B. Sagalyn is Earle W. Kazis and Benjamin Schore Professor Emerita of Real Estate at Columbia Business School, as well as a real estate professional. She is the author of *Power at Ground Zero: Politics, Money, and the Remaking of Lower Manhattan*, *Times Square Roulette: Remaking the City Icon* (MIT Press), and *Downtown, Inc.: How America Rebuilds Cities* (coauthor, MIT Press).

Evolutionary Intelligence

How Technology Will Make Us Smarter

W. Russell Neuman

A surprising vision of how human intelligence will coevolve with digital technology and revolutionize how we think and behave.

It is natural for us to fear artificial intelligence. But does Siri really want to kill us? Perhaps we are falling into the trap of projecting human traits onto the machines we might build. In *Evolutionary Intelligence*, W. Russell Neuman offers a surprisingly positive vision in which computational intelligence compensates for the well-recognized limits of human judgment, improves decision making, and actually increases our agency. In artful, accessible, and adventurous prose, Neuman takes the reader on an exciting, fast-paced ride, all the while making a convincing case about a revolution in computationally augmented human intelligence.

Neuman argues that, just as the wheel made us mobile and machines made us stronger, the migration of artificial intelligence from room-sized computers to laptops to our watches, smart glasses, and even smart contact lenses will transform day-to-day human decision making. If intelligence is the capacity to match means with ends, then augmented intelligence can offer the ability to adapt to changing environments as we face the ultimate challenge of long-term survival.

Tapping into a global interest in technology's potential impacts on society, economics, and culture, *Evolutionary Intelligence* demonstrates that our future depends on our ability to computationally compensate for the limitations of a human cognitive system that has only recently graduated from hunting and gathering.

**W. Russell Neuman** is Professor of Media Technology at New York University. A founding faculty of the MIT Media Laboratory, he served as Senior Policy Analyst in the White House Office of Science and Technology Policy. His recent books include *The Digital Difference: Media Technology and the Theory of Communication Effects*.
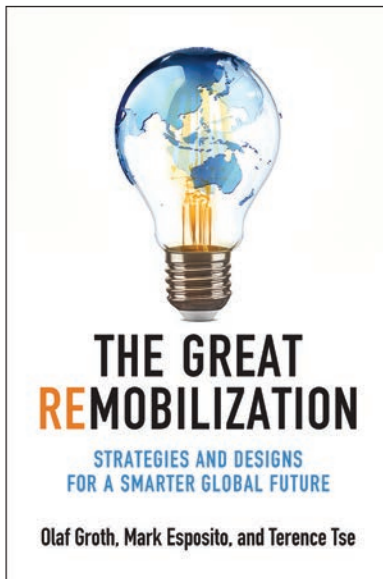
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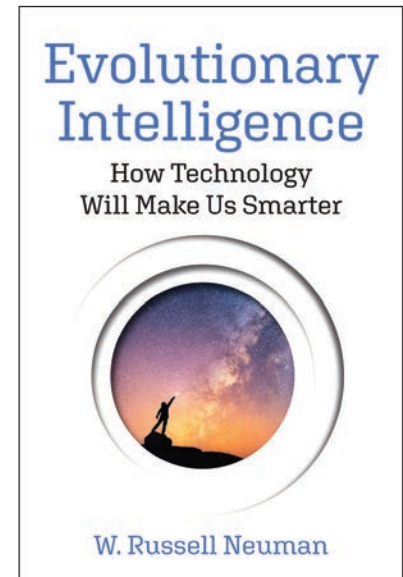
The Great Remobilization

Strategies and Designs for a Smarter Global Future

Olaf Groth, Mark Esposito, and Terence Tse

How the turmoil of recent years gives leaders an unprecedented opportunity to redesign global strategies and systems—and to remobilize toward a smarter, more resilient, and equitable future.

How can leaders faced with tremendous global upheaval create more resilient and trustworthy systems? In *The Great Remobilization*, Olaf Groth, Mark Esposito, and Terence Tse (along with research partner Dan Zehr) diagnose tectonic shifts in the global economy with an eye toward designing a smarter "operating system" for the world. Through their FLP-IT (forces, logic, patterns, impact, and triage) framework for strategic leadership, the authors chart a path forward, providing guidance for a new breed of "design activist leader." Focusing on key tectonic shifts they call the Five Cs—COVID and pandemic management, the cognitive economy and crypto, cybersecurity, climate change and carbon management, and China—they examine the implications that new forces and logics will have on countries, organizations, and individuals.

Drawing from one hundred interviews and conversations with top-level executives, entrepreneurs, policymakers, diplomats, generals, scholars, and other leading experts from around the world, the authors show how to create new inclusive visions with the aim of rebuilding the trust that will allow for both human and economic growth.

Olaf Groth is Professional Faculty for Strategy, Futures and Innovation in the Business & Public Policy group at the Haas School of Business, University of California, Berkeley; Faculty Director for Future of Technology program at Berkeley Executive Education; and Professor of Practice for Global Strategy, Innovation & Futures at Hult International Business School. **Mark Esposito** is Professor of Business & Economics at Hult International Business School, where he directs the Futures Impact Lab. He is also Teaching Faculty at Harvard University's Division of Continuing Education and Affiliate Faculty at the Microeconomics of Competitiveness Program at the Harvard Business School. He is coauthor of *The AI Republic*, *Understanding How the Future Unfolds*, and *The Emerging Economies under the Dome of the Fourth Industrial Revolution*. **Terence Tse** is Professor of Finance at Hult International Business School, Affiliate Professor at ESCP Business School and visiting professor at Cotrugli Business School. He is cofounder and executive director of the AI company Nexus FrontierTech. He is coauthor of *The AI Republic and Understanding How the Future Unfolds*, and the author of *Corporate Finance: The Basics*.

The Myth That Made Us

How False Beliefs about Racism and Meritocracy
Broke Our Economy (and How to Fix It)

Jeff Fuhrer

**How our false narratives about post-racism
and meritocracy have been used to condone
egregious economic outcomes—and what
we can do to fix the system.**

The Myth That Made Us exposes how false narratives—of
a supposedly post-racist nation, of the self-made man,
of the primacy of profit- and shareholder value-
maximizing for businesses, and of minimal government
interference—have been used to excuse gross inequities
and to shape and sustain the US economic system that
delivers them. Jeff Fuhrer argues that systemic racism
continues to produce vastly disparate outcomes and that
our brand of capitalism favors doing little to reduce
disparities. Evidence from other developed capitalist
economies shows it doesn't have to be that way. We broke
this (mean-spirited) economy. We can fix it.

Rather than merely laying blame at the feet of
both conservatives and liberals for aiding and abetting
an unjust system, Fuhrer charts a way forward. He
supplements evidence from data with insights from
community voices and outlines a system that provides
more equal opportunity to accumulate both human and
financial capital. His key areas of focus include universal
access to high-quality early childhood education;
more effective use of our community college system
as a pathway to stable employment; restructuring
key aspects of the low-wage workplace; providing
affordable housing and transit links; supporting people
of color by serving as mentors, coaches, and allies; and
implementing baby bonds and reparations programs
to address the accumulated loss of wealth among Black
people due to the legacy of enslavement and institutional
discrimination. Fuhrer emphasizes embracing humility,
research-based approaches, and community involvement
as ways to improve economic opportunity.

Jeff Fuhrer is Foundation Fellow at the Eastern Bank Foundation.
He was previously Executive Vice President and Director of
Research at the Federal Reserve Bank of Boston, where he was
also responsible for the bank's diversity and inclusion functions.
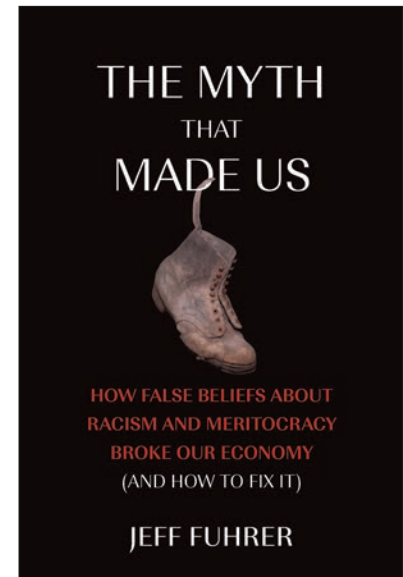
economics

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Voidopolis

Kat Mustatea

afterword by Charlotte Kent and Arielle Saiber

A hybrid digital artistic and literary project in the form of an augmented reality book, which retells Dante's Inferno as if it were set in pandemic-ravaged New York City.

Voidopolis is a digital performance about loss and memory presented as an augmented reality (AR) book with a limited lifespan. The book loosely retells the story of Dante's *Inferno* as if it were the dystopic experience of wandering through New York City during the pandemic; instead of Virgil, however, the narrator is guided through this modern hellscape by a caustic hobo named Nikita.

Voidopolis is meant to culminate in loss. It features images that are created by digitally "wiping" humans from stock photography and text that is generated without the letter "e"—in homage to Oulipo author Georges Perec's *A Void,* a 300-page novel written entirely without the letter—by using a modified GPT-2 text generator. The book, adapted from a series of Instagram posts that were ultimately deleted, is likewise designed to disappear: its garbled pages can only be deciphered with an AR app, and they decay at the same rate over a period of one year, after which the decay process restarts and begins again. At the end of this decay cycle, only the printed book, with its unintelligible pages, remains. Each July 1, the date the project first started on Instagram, the book resets again, beginning anew the cycle of its own vanishing.

A first-of-its-kind augmented reality book from a major university press, *Voidopolis* is a unique and deeply affecting artwork that speaks as much to our existential moment as it does to the fragility of experience, reality, and our connection to one another.

Kat Mustatea is a transmedia playwright and artist known for language and performance works that enlist absurdity, hybridity, and the computational uncanny to dig deeply into what it means to be human. Her TED Talk, about puppets and AI, takes a novel approach to the meaning of machines making art.

Design for Resilience

Making the Future We Leave Behind

Stuart Walker

A beautifully written and illustrated framework for resilient design that is as pragmatic as it is inspiring, showing us not only how but also why we should design differently.

Design for Resilience is a timely, visionary map for creating restorative design that addresses humanity's most critical issue: climate change. Our current wealth-oriented economic systems have resulted in gross disparities, war, refugee crises, and mass migrations that augur a bleak collective future. In this book, respected scholar Stuart Walker combines formidable research with practical examples to offer a hopeful, original, and transformative view of what resilient design looks like and how it can apply to all aspects of life, from personal objects to food to culture to business to recreation.

Working at the intersection of theory, philosophy, history, environmentalism, and justice, Walker offers a fresh approach that decolonizes design thinking to fundamentally change the nature of design practice and how it shapes our lives, communities, and industries. Asking nothing short of the fundamental question "How should we live?," *Design for Resilience* addresses the high-priority issues that concern governments, policymakers, designers, and people around the world who recognize that now, perhaps more than at any other time in human history, we need paradigmatic changes to create a future that lasts.

Stuart Walker is Chair of Design for Sustainability at Manchester School of Art, Emeritus Professor at Lancaster and Calgary, and Visiting Professor at Kingston University, London. He has conducted research and exhibited his conceptual designs internationally. His most recent book is *Design and Spirituality: A Philosophy of Material Cultures*.

"Stuart Walker's new book is a must—and not only for designers. It truly offers actionable hope for a future that lasts for everyone."

—Karl Stocker, Professor, University of Graz; coauthor of *Designing Sustainable Cities* (with Sigrid Bürstmayr)

"In addition to his fascinating theoretical argument, Walker offers a powerful perspective that touches our senses with a radically poetic originality. This book invites us to build other possible worlds through design."

—Mariana G. De la Rosa, Head of the Industrial Design Programe, México; President of DI-INTEGRA Mexican Association of Institutions and Schools of Industrial Design

"This critical and engaging text takes the reader through an impressive array of theory and practice from design, science, and culture, with an optimistic call to action backed by persuasive precedents of resilient living."

—Bruce M. Hanington, Professor, Carnegie Mellon University; coauthor of *Universal Methods of Design*
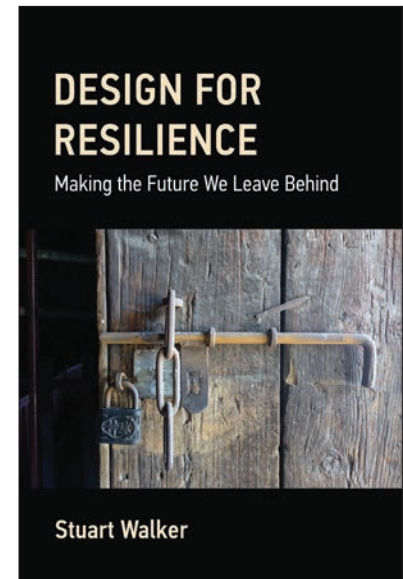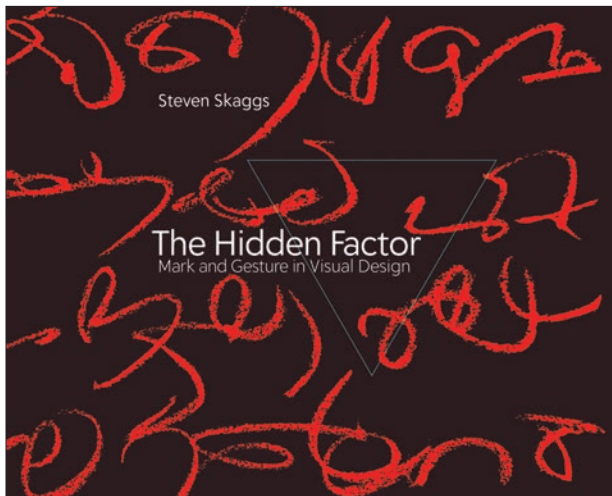
The Hidden Factor

Mark and Gesture
in Visual Design

Steven Skaggs

An exquisitely illustrated introduction to the gestural mark in the designed world, exploring the tension between marks, which are felt, and images and words, which are conceptual.

In *The Hidden Factor*, Steven Skaggs provides a beautifully illustrated and explained introduction to the mark—from those as physical as a scratch made by an animal, to those as accidental as a splatter of paint, to those as intentional as hand-drawn characters. Skaggs makes the case that, in the visual arts, gestures and mark-making operate on an equal level with image and word. While we might think of content as that which is communicated through text and images, Skaggs shows, through visual examples, that the gestural mark is often hidden within both images and the typographic forms that convey words.

By mapping different kinds of marks and showing how marks combine with image and word, *The Hidden Factor* explains that our desire for conceptual information suppresses our awareness of marking. This is especially the case with the tension between word and mark, where we desire legibility. As a result, one of the most conservative of arts—calligraphy—has the potential of being the most radical, since gesturally expressive handwriting is a natural threat to the legibility of a text.

Filled with expressive calligraphic art, graffiti, and other gorgeous marks, *The Hidden Factor* is an eye-opening read that brings to the fore the importance—and indeed, the prevalence—of the mark in everything we see.

Steven Skaggs is Professor of Design at the University of Louisville and the author of *Logos* and *FireSigns* (MIT Press), which was named an *Choice* Outstanding Academic Title for 2017 by the Association of College and Research Libraries. His font design, Rieven, received the Type Directors Award of Excellence in 2010, and his fine art calligraphic work is in the permanent collections of the Sackner Archive (University of Iowa), the Akademie der Künste (Berlin), and the Klingspor Museum (Offenbach).

design

November
9 x 7 1/2, 192 pp.
105+ color illus.

US $29.95T/$39.95 CAN cloth
978-0-262-04856-9

Also available
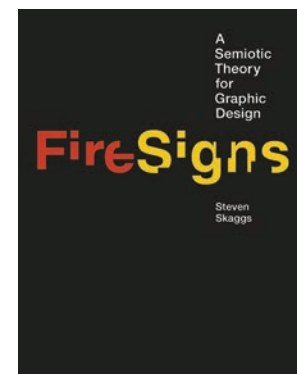
978-0-262-03543-9

Blotter

The Untold Story of an Acid Medium

Erik Davis

A richly illustrated exploration of the history, art, and design of printed LSD blotter tabs.

Blotter is the first comprehensive written account of the history, art, and design of LSD blotter paper, the iconic drug delivery device that will perhaps forever be linked to underground psychedelic culture and contemporary street art. Created in collaboration with Mark McCloud's Institute of Illegal Images, the world's largest archive of blotter art, Davis's boldly illustrated exhibition treats his outsider subject with the serious, art-historical respect it deserves, while also staying true to the sense of play, irreverence, and adventure inherent in psychedelic exploration.

Davis weaves together two main stories: first, the largely unknown history of blotter paper's development in the 1960s and its later flowering in the 1970s and 1980s; and second, the story of how San Francisco artist, professor, and "freak" McCloud began collecting blotter and ultimately became embroiled with the LSD trade. The book closes with a unique discussion of the market for "vanity blotter"—more recent perforated papers produced as collectible art objects never meant to be dipped in LSD. While vanity blotters are intimately related to the underground blotters of the LSD trade, they effectively open up their own visual world. As the ultimate document of this ephemeral artform, *Blotter* represents an exceptional contribution to the scholarship of art and psychedelics that will entertain older readers with lysergic nostalgia and younger readers with its image-driven journey through a colorful and scandalous corner of psychedelic lore.

Erik Davis is a scholar, award-winning journalist, and speaker whose writing has ranged from rock criticism to media studies to creative explorations of esoteric mysticism. He is the author of, among other books, *High Weirdness: Drugs, Esoterica, and Visionary Experience in the Seventies* (MIT Press/Strange Attractor Press).
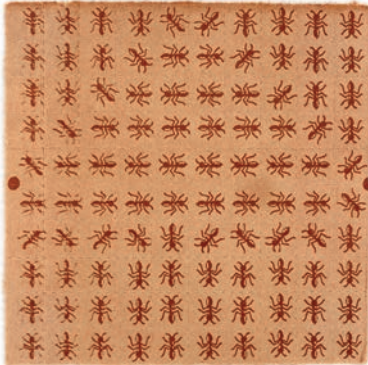
Blotter art examples from *Blotter*.

An Anthology of Blackness

The State of Black Design

edited by Terresa Moses and Omari Souza

foreword by Elizabeth (Dori) Tunstall

An adventurous collection that examines how the design field has consistently failed to attract and support Black professionals—and how to create an anti-racist, pro-Black design industry instead.
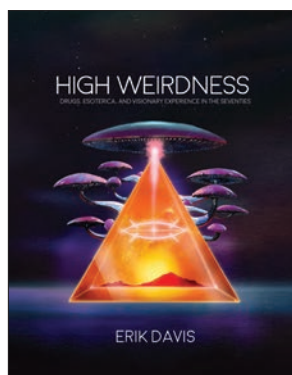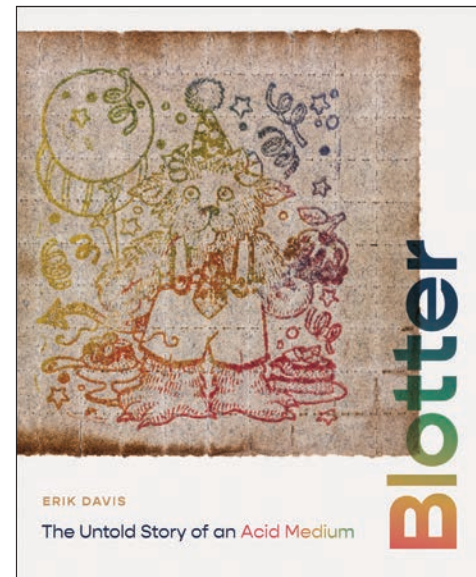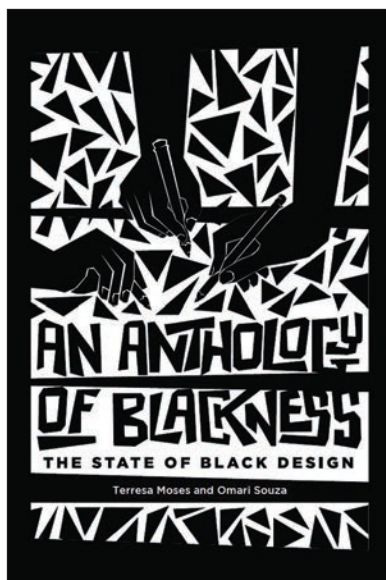
An Anthology of Blackness examines the intersection of Black identity and practice, probing why the design field has failed to attract Black professionals, how Eurocentric hegemony impacts Black professionals, and how Black designers can create an anti-racist design industry. Contributing authors and creators demonstrate how to develop a pro-Black design practice of inclusivity, including Black representation in designed media, anti-racist pedagogy, and radical self-care. Through autoethnography, lived experience, scholarship, and applied research, these contributors share proven methods for creating an anti-racist and inclusive design practice.

The contributions in *An Anthology of Blackness* include essays, opinion pieces, case studies, and visual narratives. Many contributors write from an intersectional perspective on race, gender, sexuality, ethnicity, and ability. Each section of the book expands on community-driven concerns about the state of the design industry, design pedagogy, and design activism. Ultimately, this articulated intersection of Black identity and Black design practice reveals the power of resistance, community, and solidarity—and the hope for a more equitable future. With a foreword written by design luminary Elizabeth (Dori) Tunstall, *An Anthology of Blackness* is a pioneering contribution to the literature of social justice.

Terresa Moses is Creative Director of Blackbird Revolt, Director of Design Justice, and Assistant Professor of Graphic Design at the University of Minnesota. She created Project Naptural, co-created Racism Untaught, and is both a core team member of African American Graphic Designers and a collaborator with the Black Liberation Lab. **Omari Souza** is Assistant Professor of Communication Design at the University of North Texas, the organizer of the State of Black Design Conference, and a Design Researcher at Capital One. Formerly, he worked at *VIBE magazine*, CBS Radio, and Case Western Reserve University.

design

October
6 x 9, 256 pp.
27 color illus., 36 b&w illus.

US $32.95T/$43.95 CAN cloth
978-0-262-04866-8

Racism Untaught

Revealing and Unlearning Racialized Design

Lisa E. Mercer and Terresa Moses

foreword by Cheryl D. Miller

A powerful and proven guidebook that shows organizations how to recognize racism in designed artifacts, systems, and experiences—and how to replace them with anti-racist design solutions.

Anti-racist design interventions can be difficult. Well-intentioned conversations can fuel tensions, activate racialized trauma, and lead to misunderstandings, especially in spaces not typically focused on diversity, equity, and inclusion. We need anti-racist guidelines and approaches that lay bare racialized systems of oppression and fundamentally disrupt their replication. In *Racism Untaught*, Lisa Mercer and Terresa Moses, two veteran anti-racist educators, deliver this exact approach.

Mercer and Moses provide a step-by-step guide to anti-racist interventions in academic, business, and community settings that benefits all participants. Adapted from their successful workshop series and filled with concrete examples and ample case studies, their book teaches participants how to analyze design—and reimagine racialized artifacts, systems, and experiences guided by anti-oppressive principles. They demonstrate how to examine positionality within the context of racism and oppression; help us understand how design can reinforce and perpetuate oppression; and reveal the unique relationship among equity, ethics, and responsibility that constitutes the core value of an anti-racist design discipline. In *Racism Untaught*, Mercer and Moses provide the framework we need to unlearn racialized design practices and move more generatively toward collective liberation.

With a foreword by renowned designer Cheryl D. Miller, *Racism Untaught* is a valuable tool for anyone who wants to help themselves and their organization create an actionable and inclusive plan to dismantle racial oppression and instead realize equitable, anti-racist, and liberatory design.

Lisa E. Mercer is Assistant Professor of Graphic Design and Design for Responsible Innovation at the University of Illinois, Urbana-Champaign. **Terresa Moses** is Creative Director of Blackbird Revolt, Director of Design Justice, and Assistant Professor of Graphic Design at the University of Minnesota.

How to Research Like a Dog

Kafka's New Science

Aaron Schuster

A provocative book that proposes a new and surprising inspiration for philosophy today—the canine thinker from Kafka's story "Investigations of a Dog."

Written toward the end of Kafka's life, "Investigations of a Dog" (Forschungen eines Hundes, 1922) is one of the lesser-known and most enigmatic works in the author's oeuvre. Walter Benjamin remarked that it was the one story he never managed to figure out. Kafka's tale of philosophical adventure is that of a lone, maladjusted dog who challenges the dogmatism of established science and pioneers an original research program in pursuit of the mysteries of his self and his world. Schuster revisits this text, using the canine as a guide dog through which to rediscover Kafka's fictional universe, while taking up the cause of this ingenious, possessed, melancholy, comical, and revolutionary thinker.

Neither an exercise in literary criticism nor a traditional philosophical commentary, this charming and idiosyncratic book aligns itself with and develops the research program of Kafka's dog. It constructs an "impossible" system based on the fourfold division of nourishment, music, incantation, and freedom—or, stated a bit differently: enjoyment, art, institutions, and freedom. Schuster puts the dog in dialogue with psychoanalytic theory (Freud and Lacan), the history of philosophy (Plato, Diogenes, Descartes, Kierkegaard, German Idealism, Marx, phenomenology), and literature (Gogol, Melville, Flaubert, Cervantes, Lispector). Imagining the "Unknown University" that Kafka's new science calls for, the book enlists new comrades in the dog's struggle.

Aaron Schuster is a philosopher and writer who lives in Amsterdam. His first book *The Trouble with Pleasure: Deleuze and Psychoanalysis* is also a title in the Short Circuits series.

Also available

978-0-262-52859-7
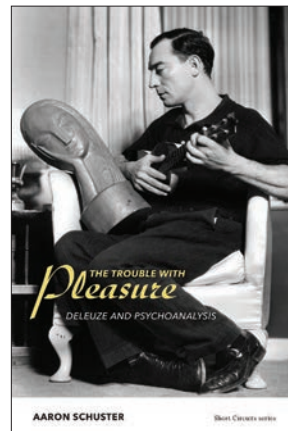
Subject Matter

The Anaesthetics of Habit and the Logic
of Breakdown

Aron Vinegar

**A theorization of habit that emphasizes its
excessive and unsettling qualities rather than its
mediating, adaptive, and stabilizing functions.**

Subject Matter offers a bold counterpoint to prevalent
conceptions of habit characterized by bodily fluidity
and ease, as the stabilizing foundation of an emerging
subjectivity, or, more negatively, as a numbing and
deadening force. Instead of facilitating the coordination
of action with goal and self with environment, habit
appears as a disruptively recursive operation with
extreme ontological implications that are often more
quotidian than exceptional. Vinegar theorizes habit's
more perturbing aspects, from repetition compulsion to
kenosis to breakdown, through an encounter between
Hegel's philosophy (of habit), psychoanalytic dimensions
of repetition, Tom McCarthy's novel *Remainder*, and
Omer Fast's feature-length film interpretation of the
novel.

Vinegar starts with the premise that habit is an
"unhappy mediator," a disturbance of the very medium
and milieu that is constitutive of the subject. *Subject Matter*
pays close attention to those aspects of habit that are
usually considered deviations from, or potential threats
to, habit proper and that generate a logic of breakdown:
automaticity, mechanization, thingness, inertia, and fixity.
By plotting a topology of habit's unbearability through
detailed accounts of its manifestation in writing, art,
aesthetics, and visuality—and through an attentiveness
to the unbalanced nonrelations between mediation
and immediacy, being and having, fixity and fluidity,
vanishing and overflowing, abbreviation and excess,
beginning and ending—Vinegar exposes habit's failure
to mediate and inhabit. In doing so, he offers new and
counterintuitive insights into how habit generates the
unruly grounds it is supposed to settle, thus allowing us to
ask how we might break down differently.

Aron Vinegar is Professor of Art History and Visual Studies at the
University of Oslo. He writes and teaches at the intersection of art,
architecture, visual studies, aesthetics, and philosophy.

philosophy

October
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61 b&w illus.

US $29.95T/$39.95 CAN paperback
978-0-262-54636-2

Short Circuits series

Politically Red

Eduardo Cadava and Sara Nadal-Melsió

How reading and writing are collective acts of political pedagogy, and why the struggle for change must begin at the level of the sentence.

"Reading is class struggle," writes Bertolt Brecht. Marxism is not just a body of political and economic thought but also a practice of reading and writing, in which individual sentences give form to collective action and become social beings in their own right. Through a series of creative and interconnected readings of writings by, among others, Karl Marx, W. E. B. Du Bois, Rosa Luxemburg, Walter Benjamin, and Fredric Jameson, Eduardo Cadava and Sara Nadal-Melsió contextualize contemporary demands for social and racial justice by expanding our understanding of the relationship between literacy and class politics.

Reading between the lines, as it were, Cadava and Nadal-Melsió engage in an inventive literary mode of activist writing that finds new resources for Marxist thought, crucial for confronting the inequalities of our current historical moment and for combating insurgent fascism and racism. Reading and writing, they argue, are never solitary tasks, but rather collaborative and collective, and able to revitalize our shared political imagination. Drawing on what they call a "red common-wealth"—an archive of vast resources for doing political work and, in particular, antiracist work— Cadava and Nadal-Melsió demonstrate that sentences, as dynamic repositories of social relations, are historical and political events.

Eduardo Cadava is Philip Mayhew Professor of English at Princeton University. He is the author of *Words of Light: Theses on the Photography of History*, *Emerson and the Climates of History*, and *Paper Graveyards*. **Sara Nadal-Melsió** is a NYC-based Catalan writer, curator, and teacher. She has taught at the University of Pennsylvania, Princeton University, SOMA in Mexico City, and New York University. Her book *Europe and the Wolf: Political Variations on a Musical Concept* is forthcoming from Zone Books.

Also available
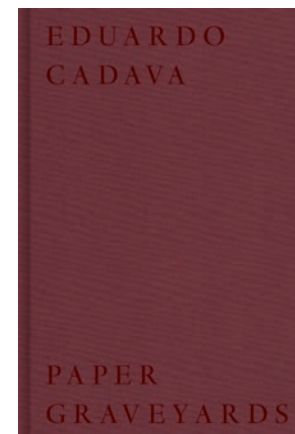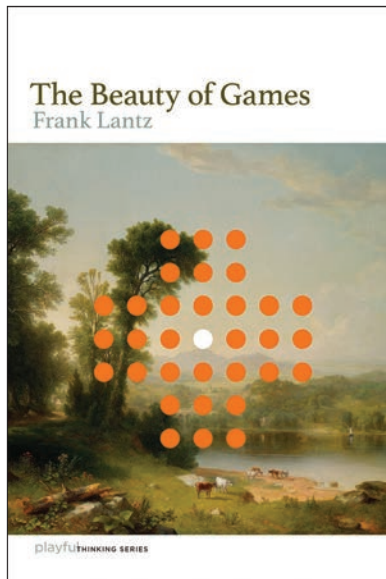
The Beauty of Games

Frank Lantz

How games create beauty and meaning, and how we can use them to explore the aesthetics of thought.

Are games art? This question is a dominant mode of thinking about games and play in the twenty-first century, but it is fundamentally the wrong question. Instead, Frank Lantz proposes in his provocative new book, *The Beauty of Games*, that we think about games and how they create meaning through the lens of the aesthetic. We should think of games, he writes, the same way we think about literature, theater, or music—as a form that ranges from deep and profound to easy and disposable, and everything in between. Games are the aesthetic form of interactive systems, a set of possibilities connected by rules of cause and effect.

In this book, Lantz analyzes games from chess to poker to tennis to understand how games create beauty and evoke a deeper meaning. He suggests that we think of games not only as hypermodern objects but also as forms within the ancient context of artistic production, encompassing all of the nebulous and ephemeral qualities of the aesthetic experience.

Frank Lantz has taught game design for over twenty years at New York University, where he helped create the NYU Game Center and served as the founding Chair of the Game Design department from its inception until 2021. He is a game designer who has shipped over fifty titles, including the 2017 viral hit *Universal Paperclips*. In 2020, he created the board game *Hey Robot* in collaboration with his wife and son. *Hey Robot* has since become a recurring feature on *The Tonight Show* Starring Jimmy Fallon.

games

October
5 1/4 x 8, 184 pp.
6 b&w illus.

US $19.95T/$25.95 CAN cloth
978-0-262-04853-8

Playful Thinking series

Also available

978-0-262-54527-3

978-0-262-04438-7

Playing Place

Board Games, Popular Culture, Space

**edited by Chad Randl and
D. Medina Lasansky**

An essay collection exploring the board game's relationship to the built environment, revealing the unexpected ways that play reflects perceptions of space.

Board games harness the creation of entirely new worlds. From the medieval warlord to the modern urban planner, players are permitted to inhabit a staggering variety of roles, and are prompted to incorporate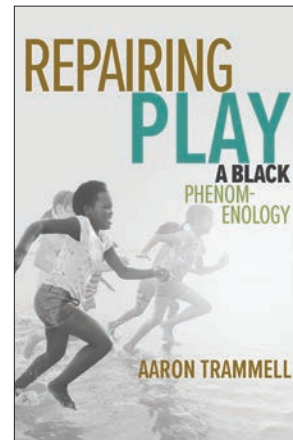 preexisting notions of placemaking into their decisions. To what extent do board games represent the social context of their production? How might they reinforce or subvert normative ideas of community and fulfillment? In *Playing Place*, Chad Randl and D. Medina Lasansky have curated a collection of 37 fascinating essays, supplemented by a rich trove of photo illustrations, that unpack these questions with breadth and care.

   Although board games are often recreational objects, their mythologies and infrastructure do not exist in a vacuum—rather, they echo and reproduce prevalent cultural landscapes. This thesis forms the throughline of pieces reflecting on subjects as diverse as the rigidly gendered fantasies of classic mass-market games; the imperial convictions embedded in games that position player-protagonists as conquerors establishing dominion over their "discoveries"; and even the uncanny prescience of games that have players responding to a global pandemic. Representing a thrilling convergence of historiography, architectural history, and media studies scholarship, *Playing Place* suggests not only that tabletop games should be taken seriously but also that the medium itself is uniquely capable of facilitating our critical consideration of structures that are often taken for granted.

Chad Randl is Art DeMuro Assistant Professor of Historic Preservation at the University of Oregon. He is the author of *A-Frame and Revolving Architecture: A History of Buildings That Rotate, Swivel, and Pivot.* **D. Melina Lasansky** is Professor in the Department of Architecture at Cornell University, where her research and teaching focus on the intersection of the built environment, politics, and popular culture.

"A fascinating, amusing, and eye-opening collection of essays."

—Iain Borden, Professor, University College London; author of *Skateboarding and the City*

"Never has a book of serious architectural scholarship provided greater thrills. A banquet of board games and architecture that leaps across time, space, cultures and players. Roll the dice, it's time to play!"

—Barbara Penner, Professor, Bartlett School of Architecture, University College London; editor of *Extinct: A Compendium of Obsolete Objects*

games

August
8 x 10, 280 pp.
154 color illus.

US $39.95T/$53.95 CAN cloth
978-0-262-04783-8

Dis... Miss Gender?

edited by Anne Bray

A bold mix of photographs and short essays in which artists, writers, and theorists investigate and celebrate the rapidly evolving world of gender.

Discuss. Discover. Disrupt. We dis- a lot in English, particularly with regard to women and queer people. Our understanding of gender is changing, and with it, so are our questions. *Dis…Miss Gender?* provides thoughtfully considered contributions from an intrepid group of a artists and writers who examine contemporary concepts of gender. Anchored by lavish illustrations and original essays from prominent gender theorists, including Karen Tongson, Amelia Jones, and Tiffany E. Barber, plus commentary from artists, viewers, and organizations committed to equity and justice, this provocative book is the culmination of a five-year initiative by Anne Bray.

Dis… Mis Gender? offers a kaleidoscopic survey of intersectionality, feminism, and queer theory. As the population of gender nonconforming and people of color grows, so too does their demand for visual representations of themselves in the world at large. *Dis…Miss Gender?* nourishes the change we need so that we can at last model diverse identities, question our options, reduce our judgments, and destroy stereotypes. Celebrating a joyful plurality, this book is a finger-on-the-pulse revelation of gender in the act of transforming.

Anne Bray is an artist and director of the nonprofit arts organization Freewaves in Los Angeles. Freewaves has presented more than 3,000 artists in partnership with 125 curators and over 100 organizations at venues including MIT, the Los Angeles Museum of Contemporary Art, and the Hammer Museum.

"Enticement is here, on the page and in the image. Assertion, affirmation, cheer, manifesto, resourcefulness, camaraderie—I am beckoned by these intense attractions into this book's mission and moment. I could not resist its luminosity."

—Kathryn Bond Stockton, Dean of the School for Cultural & Social Transformation, The University of Utah; author of *Gender(s)*

"What a fantastic book! If you wonder what today's genderbending is all about, this mix of art, activism, manifesto, confrontation, and celebration will keep you spellbound with every gorgeous page."

—Suzanne Lacy, Professor, Roski School of Art and Design, University of Southern California

In Visible Presence

Soviet Afterlives in Family Photos

**Oksana Sarkisova and
Olga Shevchenko**

An absorbing exploration of Soviet-era family photographs that demonstrates the singular power of the photographic image to command attention, resist closure, and complicate the meaning of the past.

A faded image of a family gathered at a festively served dinner table, raising their glasses in unison. A group of small children, sitting in orderly rows, with stuffed toys at their feet and a portrait of Lenin looming over their heads. A pensive older woman against a snowy landscape, her gaze directed lovingly at a tombstone. These are a few of the evocative images in *In Visible Presence* by Oksana Sarkisova and Olga Shevchenko, an exquisitely researched book that brings together photographs from Soviet-era family photo archives and investigates their afterlives in Russia.

In Visible Presence explores the photographic images' singular power to capture a fleeting moment by approaching them as points of contestation and possibility. Drawing on over a decade of fieldwork and interviews, as well as internet ethnography, media analysis, and case studies, *In Visible Presence* offers a rich account of the role of family photography in creating communities of affect, enabling nostalgic longings, and processing memories of suffering, violence, and hardship. Together these photos evoke youthful aspirations, dashed hopes, and moral compromises, as well as the long legacy of silence that was passed down from grandparents to parents to children.

With more than 250 black and white photos, *In Visible Presence* is an astonishing journey into domestic photography, family memory, and the ongoing debate over the meaning of the Soviet past that is as timely and powerful today as it has ever been.

Oksana Sarkisova is Research Fellow at the Vera and Donald Blinken Open Society Archives and cofounder of the Visual Studies Platform at Central European University. She is the author of *Screening Soviet Nationalities* and coeditor of *Past for the Eyes*. **Olga Shevchenko** is Paul H. Hunn '55 Professor in Social Studies at the Department of Anthropology and Sociology at Williams College. She is the author of *Crisis and the Everyday in Postsocialist Moscow* and the editor of *Double Exposure: Memory and Photography*.
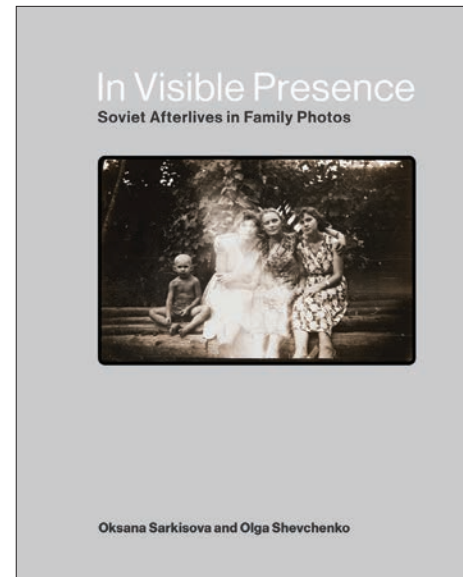
The Monster Leviathan

Anarchitecture

Aaron Betsky

Visionary proposals for a mythic and strange architecture—or anarchitecture—through which we can imagine other and better worlds.

Lurking under the surface of our modern world lies an unseen architecture—or anarchitecture. It is a possible architecture, an analogous architecture, an architecture of anarchy, which haunts in the form of monsters that are humans and machines and cities all at once; or takes the form of explosions, veils, queer, playful spaces, or visions from artwork and video games. In *The Monster Leviathan*, Aaron Betsky traces anarchitecture through texts, design, and art of the twentieth and early twenty-first century, and suggests that these ephemeral evocations are concrete proposals in and of themselves. Neither working models nor suggestions for new forms, they are scenes just believable enough to convince us they exist, or just fantastical enough to open our eyes.

The Monster Leviathan gives students and lovers of architecture, as well as those hoping to construct a better, more sustainable, and socially just future, a set of tools through which they can imagine that such other worlds are possible. As Betsky eloquently articulates, anarchitecture already exists and does not exist at all. It is the myth of building, and all we have to do is find it.

Aaron Betsky is Professor in the School of Architecture and Design at Virginia Tech. He has served as Dean and President of the School of Architecture at Taliesin, Director of the Cincinnati Art Museum and the Netherlands Architecture Institute, as well as Curator of Architecture and Design at the San Francisco Museum of Modern Art. In 2008, he also directed the 11th Venice International Biennale of Architecture.

Atrium

Charles Rice

How the rise of the large-scale atrium space in the 1970s and '80s changed the way buildings could be designed, constructed, regulated, and occupied.

In the 1970s, a void opened at the heart of architecture. In hotels, offices, public buildings, and commercial centers, the atrium emerged globally to challenge the modernist legacies of form and function, altering the pattern and experience of cities. While often appearing at vast scale and to striking effect, the atrium also became omnipresent and mundane. In this lively critique, Charles Rice charts the atrium's appearance in the 1970s and its development through the 1980s, as it accompanied profound shifts in the discipline and practice of architecture.

During this period, architectural practice especially in the United States and United Kingdom was changing rapidly, due in part to the manifold effects of deregulation. All aspects of the way buildings were designed, developed, regulated, built, managed, and occupied were being reshaped. A practice guided by the progressive tenets of modernism was being turned into a professional service fully integrated within neoliberal social and economic imperatives. As Rice shows, the atrium gives this story a distinct spatial and material figure, one that offers an inside view of architecture in transformation.

Charles Rice is Professor of Architecture at the University of Technology Sydney. He is author of *The Emergence of the Interior: Architecture, Modernity, Domesticity* and *Interior Urbanism: Architecture, John Portman and Downtown America*.
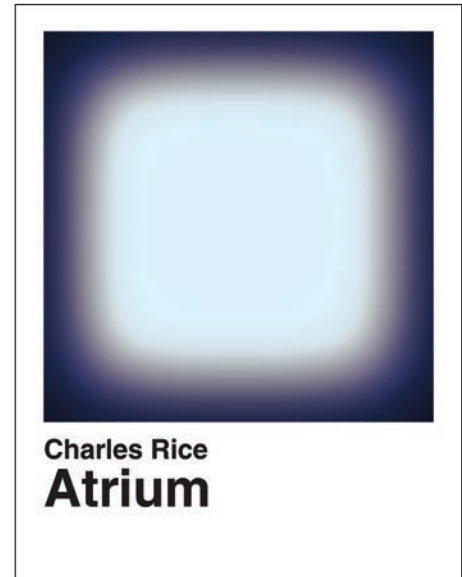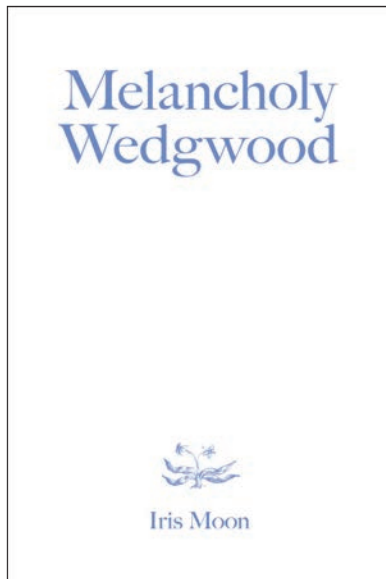
Melancholy Wedgwood

Iris Moon

An experimental biography of the ceramics entrepreneur Josiah Wedgwood that reveals the tenuous relationship of eighteenth-century England to late-capitalist modernity.

Melancholy Wedgwood traces the multiple strands in the life of the ceramic entrepreneur Josiah Wedgwood (1730–1795) to propose an alternative view of eighteenth-century England's tenuous relationship to our own lives and times, amid the ruins of late-capitalist modernity.

Through intimate vignettes and essays, and in writing at turns funny, sharp, and pensive, Iris Moon chips away at the mythic image of Wedgwood as singular genius, business titan, and benevolent abolitionist, revealing an amorphous, fragile, and perhaps even shattered life. In the process the book goes so far as to dismantle certain entrenched social and economic assumptions, not least that the foundational myths of capitalism might not be quite so rosy after all, and instead induce a feeling that could only be characterized as blue.

Iris Moon is Assistant Curator in the European Sculpture and Decorative Arts Department at the Metropolitan Museum of Art. She is the author of *Luxury after the Terror* and coeditor with Richard Taws of *Time, Media, and Visuality in Post-Revolutionary France*. She teaches at the Cooper Union for the Advancement of Science and Art.

biography

January
5 1/2 x 8 3/4, 272 pp.
85 b&w illus., 14 color plates

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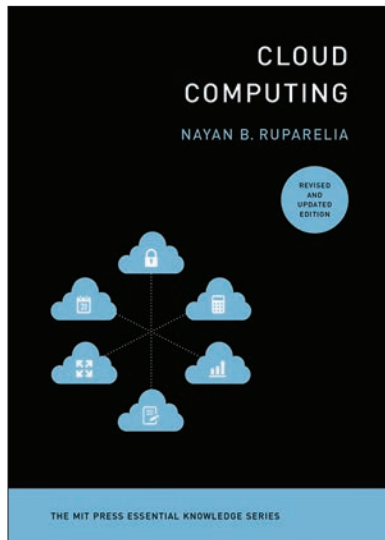
Cloud Computing

revised and updated edition

Nayan B. Ruparelia

An updated, revised, and comprehensive overview of the concepts related to cloud computing, including recent applications, innovations, and its future evolution.

In this Essential Knowledge volume, Nayan B. Ruparelia provides an updated and revised version of *Cloud Computing*, first published in 2016, to address not only the fact that cloud computing has become a ubiquitous part of mainstream computing since then but also has made strides in other key aspects of the technology's development. *Cloud Computing* now includes:

- cloud computing's history,
- updated security fundamentals that provide examples of Identity and Access Management (IAM) use that illustrate the difference between on-premise (i.e., conventional) security and cloud-based security implementation and Security Information and Event Management SIEM),
- an updated discussion of data migration to the cloud,
- a new chapter on data integrity,
- cloud native computing,
- the use of microservice design patterns,
- cloud automation using orchestrators and tools such as Kubernetes,
- a comparison of common public clouds (Microsoft Azure, Google Cloud Platform, and Amazon AWS),
- and a future outlook for cloud computing.

An indispensable guide to cloud computing for the layperson, *Cloud Computing* cuts through the technical jargon and details that are irrelevant to nontechnologists, as well as the marketing hype, and explains clearly what cloud computing is, when to use it (and when not to), how to select a cloud service, how to integrate it with other technologies, and what the best practices are for its adoption.

Nayan B. Ruparelia is a technical advisor to investment firms. He has over 29 years of experience in IT, of which 10 years was as a CTO at organizations ranging from startups to multinationals. He has been awarded a US patent in the Internet of Things and cloud computing.

computer science

August
5 x 7, 280 pp.
23 b&w illus.

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The MIT Press Essential Knowledge series

Plastics

Imari Walker-Franklin and Jenna Jambeck

A comprehensive introduction to the plastics life cycle—the impacts on our lives, our future, and our planet—and the actions we can take.

Everywhere we look, we are surrounded by plastics: perhaps you have a book in one hand and your phone—made of various metals, plastics, and glass—in the other, or you are reading this on your polyurethane mattress after having flipped on a plastic light switch. In this Essential Knowledge series volume, Imari Walker-Franklin and Jenna Jambeck provide a deep exploration of the entire life of plastic things—plastics production and use, plastic waste generation and management, the environmental and societal impacts of plastics in our environment, and, finally, the policies that can help reduce pollution caused by our heavy use of plastics.

One of the most current and comprehensive summaries on the subject, *Plastics* covers not only ocean and terrestrial plastic pollution but also the potential harms of microplastics on the human body. The authors also explain why we use plastic for so many products, how trash ends up in even the most remote corners of our world, and the alternatives and interventions that can help address our overreliance on this virtually imperishable material. As easily digestible to read as it is important, this book empowers its readers with the crucial knowledge and information they need to make thoughtful consumer choices, influence change, and spark inspiration.

Imari Walker-Franklin holds a PhD in environmental engineering and is a research scientist at RTI International in North Carolina's Research Triangle Park. Additionally, she is a writer, actor, and director for her science communication YouTube channel, which discusses plastic pollution and its possible solutions. **Jenna Jambeck** is the Georgia Athletic Association Distinguished Professor in Environmental Engineering at the University of Georgia, founder of the Circularity Informatics Lab, co-developer of Marine Debris Tracker, a National Geographic Explorer, and a 2022 MacArthur Fellow.
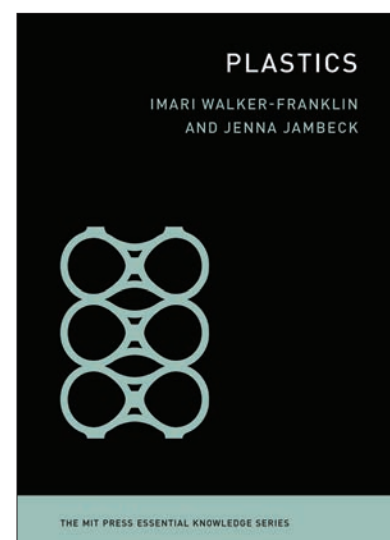
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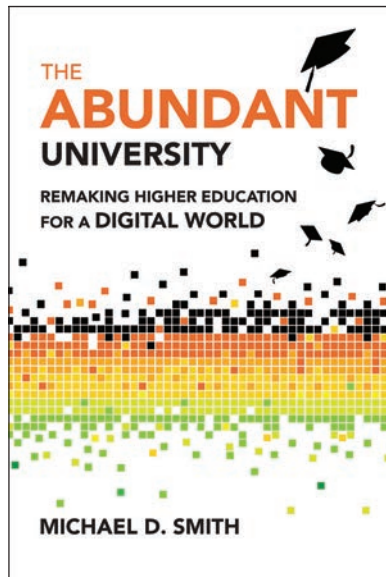US $15.95T/$21.95 CAN paper
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The Abundant University

Remaking Higher Education for a Digital World

Michael D. Smith

Why our current system of higher education is financially and morally unsustainable, and how to address the crisis with the creative implementation of digital technologies.

For too long, our system of higher education has been defined by scarcity: scarcity in enrollment, scarcity in instruction, and scarcity in credentials. In addition to failing students professionally, we have seen how this system has exacerbated social injustice and socioeconomic stratification across the globe. In *The Abundant University*, Michael Smith argues that the only way to create a financially and morally sustainable higher education system is by embracing digital technologies for enrolling, instructing, and credentialing students—the same technologies that we have seen create abundance in access to resources in industry after industry.

The Abundant University explains how we got our current system, why it's such an expensive, inefficient mess, and how a system based on exclusivity necessarily cannot foster inclusivity. Further, Smith challenges the resistance to digital technologies that we have already seen among numerous institutions, citing the examples of faculty resistance toward digital learning platforms. While acknowledging the understandable self-preservation instinct for our current system of residential education, Smith makes a case for how technology can engender greater educational opportunity and create changes that will benefit students, employers, and society as a whole.

Michael D. Smith is J. Erik Jonsson Professor of Information Technology and Marketing at Carnegie Mellon University's Heinz College of Public Policy and Management. Smith is coauthor of the book *Streaming, Sharing, Stealing: Big Data and the Future of Entertainment* (MIT Press).

education

September
5 1/4 x 8, 296 pp.
4 figures

US $30.00X/$41.00 CAN cloth
978-0-262-04855-2

"All I can say is that Michael gets it! This book is a must read for anyone interested in creating a more inclusive and sustainable future for higher education. His insights are important for every upcoming higher education leader to understand." **—Maria Anguiano, Executive Vice President, Arizona State University**

"This thought-provoking book tackles the potential changes to higher education arising from the progress of digital technologies. From admission to graduation, Smith sets the stage for intense debates—not just about future directions, but about current conditions."
—Joshua Gans, Professor of Strategic Management at the University of Toronto; author of *The Disruption Dilemma*

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MICHAEL D. SMITH AND RAHUL TELANG
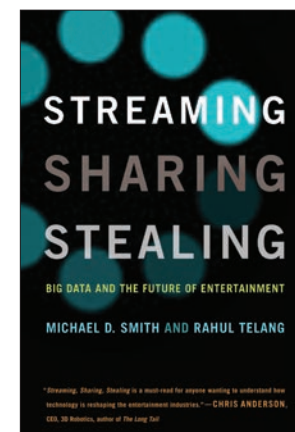
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The Unnaming of Kroeber Hall

Language, Memory, and Indigenous California

Andrew Garrett

A critical examination of the complex legacies of early Californian anthropology and linguistics for twenty-first-century communities.

In January 2021, at a time when many institutions were reevaluating fraught histories, the University of California removed anthropologist and linguist Alfred Kroeber's name from a building on its Berkeley campus. Critics accused Kroeber of racist and dehumanizing practices that harmed Indigenous people; university leaders repudiated his values. In *The Unnaming of Kroeber Hall*, Andrew Garrett examines Kroeber's work in the early twentieth century and his legacy today, asking how a vigorous opponent of racism and advocate for Indigenous rights in his own era became a symbol of his university's failed relationships with Native communities. Garrett argues that Kroeber's most important work has been overlooked: his collaborations with Indigenous people throughout California to record their languages and stories.

The Unnaming of Kroeber Hall offers new perspectives on the early practice of anthropology and linguistics and on its significance today and in the future. Kroeber's documentation was broader and more collaborative and multifaceted than is usually recognized. As a result, the records Indigenous people created while working with him are relevant throughout California as communities revive languages, names, songs, and stories. Garrett asks readers to consider these legacies, arguing that the University of California chose to reject critical self-examination when it unnamed Kroeber Hall.

Andrew Garrett is the Nadine M. Tang and Bruce L. Smith Professor in the Department of Linguistics and Director of the California Language Archive at the University of California, Berkeley. Since 2001, he has collaborated with the Yurok Tribe on the documentation and revitalization of the Yurok language.

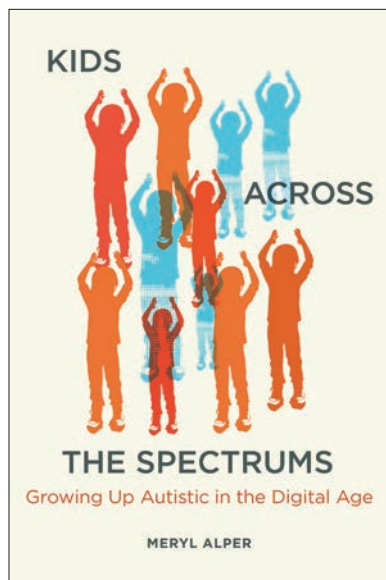# Kids Across the Spectrums

Growing Up Autistic in the Digital Age

Meryl Alper

An ethnographic study of diverse children on the autism spectrum and the role of media and technology in their everyday lives.

In spite of widespread assumptions that young people on the autism spectrum have a "natural" attraction to technology—a premise that leads to significant speculation about how media helps or harms them—relatively little research actually exists about their everyday tech use. In *Kids Across the Spectrums*, Meryl Alper fills this gap with the first book-length ethnography of the digital lives of autistic young people. Based on research with more than sixty neurodivergent children from an array of racial, ethnic, and socioeconomic backgrounds, *Kids Across the Spectrums* delves into three overlapping areas of their media usage: cultural belonging, social relationships, and physical embodiment.

Alper's work demonstrates that what autistic youth do with technology is not radically different from their nonautistic peers. However, significant social and health inequalities—including limited recreational programs, unsafe neighborhoods, and challenges obtaining appropriate therapeutic services—spill over into their media habits. With an emphasis on what autistic children bring to media as opposed to what they supposedly lack socially, Alper argues that their relationships do not exist outside of how communication technologies affect sociality, nor beyond the boundaries of stigmatization and society writ large. Finally, she offers practical suggestions for the education, healthcare, and technology sectors to promote equity, inclusion, access, and justice for autistic kids at home, at school, and in their communities.

Meryl Alper is Associate Professor of Communication Studies at Northeastern University. She is the author of *Digital Youth with Disabilities* and *Giving Voice: Mobile Communication, Disability, and Inequality* (both MIT Press).

psychology

August
6 x 9, 324 pp.
5 b&w illus.

US $40.00X/$54.00 CAN paperback
978-0-262-54536-5

"Weaving together empathetic research with autistic children with a critique of society's prejudices and expectations, Alper lays to rest a host of myths, offering instead a deeply humane insight into their digital and not-so-digital lives."

—**Sonia Livingstone, Professor, Department of Media and Communications, London School of Economics; author of *Parenting for a Digital Future***

"This groundbreaking book cuts through the clichés about kids and 'screen time' to reveal how young autistic people use digital media to construct identities and communities in a world built for neurotypicals."

—**Steve Silberman, author of *NeuroTribes: The Legacy of Autism and the Future of Neurodiversity***

"This deeply humane book presents a vivid account of how autistic children and their families use media to create rich and rewarding social lives. Parents of neurodivergent children will find validation and reassurance in these pages."

—**Kristen Harrison, Professor of Communication and Media, University of Michigan**

Categories We Live By

How We Classify Everyone and Everything

Gregory L. Murphy

An in-depth analysis of how humanity's compulsion to categorize affects every aspect of our lived experience.

The minute we are born—sometimes even before—we are categorized. From there, classifications dog our every step: to school, work, the doctor's office, and even the grave. Despite the vast diversity and individuality in every life, we seek patterns, organization, and control. In *Categories We Live By*, Gregory Murphy considers the categories we create to manage life's sprawling diversity. Analyzing everything from bureaucracy's innumerable categorizations to the minutiae of language, this book reveals how these categories are imposed on us and how that imposition affects our everyday lives.

Categories We Live By explores categorization in two parts. In part one, Murphy introduces the groundwork of categories—how they are created by experts, imperfectly captured by language, and employed by rules. Part two provides a number of case studies. Ranging from trivial categories such as parking regulations and peanut butter to critical issues such as race and mortality, Murphy demonstrates how this need to classify pervades everything. Finally, this comprehensive analysis demonstrates ways that we can cope with categorical disagreements and make categories more useful to our society.

Gregory L. Murphy is Professor Emeritus of Psychology at New York University. He is the author of *The Big Book of Concepts* (MIT Press) and numerous scientific journal articles.

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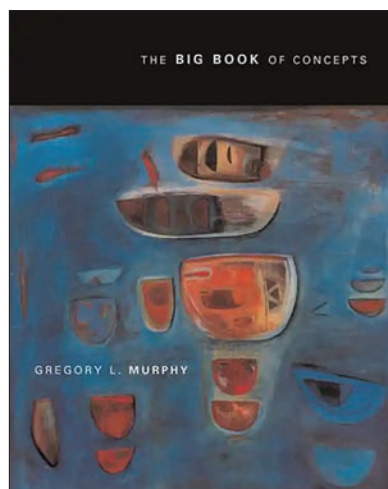
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The Hidden Powers of Ritual

The Journey of a Lifetime

Bradd Shore

An illuminating overview of the development, benefits, and importance of ritual in everyday life, written by a leading cognitive anthropologist.

The Hidden Powers of Ritual is an engaging introduction to ritual studies that presents ritual as an evolved form of human behavior of almost unimaginable significance to our species. Every day across the globe, people gather to share meals, brew caffeinated beverages, or honor their ancestors. In this book, Bradd Shore, a respected anthropologist, reaches beyond familiar "big-R" rituals to present life's humbler, overshadowed moments, exploring everything from the Balinese Pelebon to baseball to family Zoom sessions in the age of COVID-19 to the sobering reenactment rituals surrounding the Moore's Ford lynchings. In each ritual, Shore shows how our capacity to ritualize behavior is a remarkable part of the human story.

Encompassing both the commonly unlabeled "interaction rituals" studied by sociologists and the symbolically elaborated sacred rituals of religious studies, Shore organizes his conception around detailed case studies drawn from international research and personal experience, weaving scholarship with a memoir of a life encompassed by ritual. A probing exploration that matches breadth with accessibility, *The Hidden Powers of Ritual* is a provocative contribution to ritual theory that will appeal to a wide range of readers curious about why these unique repetitive acts matter in our lives.

Bradd Shore is Goodrich C. White Professor Emeritus of Anthropology at Emory University. A psychological anthropologist specializing in ritual studies, culture, and cognition, he is the author of over seventy papers and six books. He also served as Director of Emory's Center for Myth and Ritual in American Life for ten years. He was awarded the Society for Psychological Anthropology's Lifetime Achievement Award in 2019 after having served as its president.

anthropology | cultural studies

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52 b&w illus.

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Emergency Money

Notgeld in the Image Economy of the German
Inflation, 1914–1923

Tom Wilkinson

**A landmark art historical study of German
Notgeld, the emergency money produced during
World War I, and the hyperinflation that followed.**

Emergency Money is the first art historical study of
Germany's emergency money, Notgeld. Issued during
World War I and the tumultuous interwar period, these
wildly artful banknotes featured landscapes, folk figures,
scenes of violence and humor, and even inflation itself in
the form of figures staring into empty purses or animals
defecating coins. Until now, art historians have paid
Notgeld scant attention, but Wilkinson looks closely at
these amusing, often disturbing, artifacts and their grim
associations to cast new light on the Weimar Republic's
visual culture, as well as the larger relationship between
art and money.

As Wilkinson shows, Germany's early twentieth-
century economic crisis was also a crisis of culture.
Retelling the period's gripping story through thematic
investigations into prevalent Notgeld motifs, Wilkinson
illuminates how the vexed relationship between aesthetic
value and exchange value was an inextricable part of
everyday life.

A landmark contribution to our understanding of
twentieth-century Germany, *Emergency Money* brings
together art, economics, critical theory, and media theory
to create a book for our own inflationary moment, as
the world's new materialisms confront the specter of this
older, more fundamental materialism.

Tom Wilkinson is an art historian who specializes in German
visual culture and modern architecture. Previously a lecturer at
the Courtauld Institute and at Birkbeck, University of London, he is
History Editor of the *Architectural Review* and author of *Bricks and
Mortals: Ten Great Buildings and the People They Made*.

art | history

January
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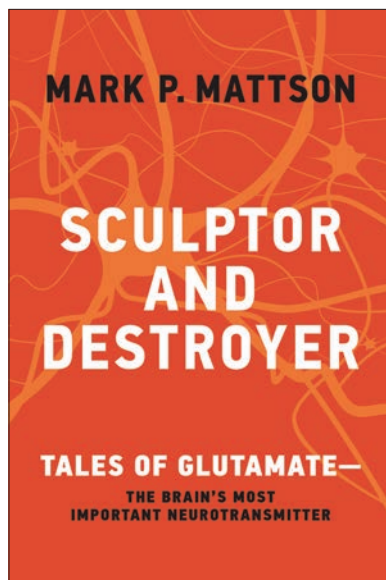
Sculptor and Destroyer

Tales of Glutamate—the Brain's Most Important Neurotransmitter

Mark P. Mattson

The fascinating story of glutamate, the neurotransmitter that controls the structure and function of the brain in health and neurological disorders.

Sculptor and Destroyer tells the story of a simple, little-known molecule that became a master architect and commander of the human brain: glutamate. Upward of 90 percent of the neurons in the human brain deploy glutamate as their neurotransmitter. Other neurotransmitters can only exert their effects on brain function by subtly modifying the ongoing activity of glutamatergic neurons, but during brain development glutamate controls the growth of dendrites and the formation of synapses. In this eye-opening book, Mark Mattson explains how the neurotransmitter glutamate controls the structure and function of neuronal networks in the brain, thereby mediating the brain's capabilities, including learning and memory, creativity, and imagination.

Mattson also delves deeply into the dark side of glutamate, which he calls the "destroyer" side. He shows how relatively subtle aberrancies in the activity of neurons that deploy glutamate may result in behavioral disorders ranging from autism and schizophrenia to chronic anxiety and depression. More dramatically, he describes how glutamate can excite neurons to death, a process that occurs in epilepsy and stroke and, perhaps even more insidiously, in Alzheimer's disease, Parkinson's disease, ALS, and Huntington's disease. *Sculptor and Destroyer* concludes with a perspective on how knowledge of glutamate's roles in neuroplasticity might be applied to the optimization of brain health throughout our lives.

Mark P. Mattson is currently Adjunct Professor of Neuroscience at Johns Hopkins University and was previously Chief of the Laboratory of Neurosciences at the National Institute on Aging in Baltimore. He is a Fellow of the American Association for the Advancement of Science, and has received many awards including the Metropolitan Life Foundation Medical Research Award and the Alzheimer's Association Zenith Fellows Award. He is the author of *The Intermittent Fasting Revolution: The Science of Optimizing Health and Enhancing Performance* (MIT Press).

neuroscience

August
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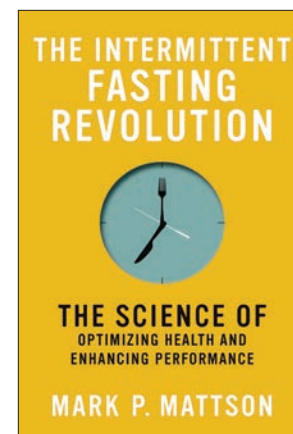
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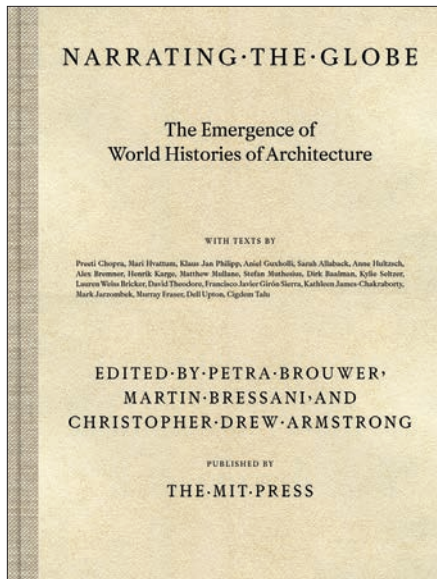
Narrating the Globe

The Emergence of World Histories of Architecture

edited by Petra Brouwer, Martin Bressani, and Christopher Drew Armstrong

How notions of progress, beauty, and cultural superiority structured the genre of nineteenth-century world histories of architecture—and shaped the discipline as we know it today.

The nineteenth century saw the emergence of a new genre of architectural writing: the grand history of world architecture. This genre often expressed a deeply Eurocentric worldview, largely dismissing non-Western architecture through narratives of historical progress and stylistic beauty. Yet even as nineteenth-century historians worked to construct an exclusive architectural canon, they were engaged in constant debate over its categories and constraints. *Narrating the Globe* traces the emergence of this historical canon, exposing the questions and problems that prompted the canon's very formation.

Bringing together architectural historians from around the world, this collection of essays—the first comprehensive examination of the nineteenth-century architectural history survey as a literary genre—includes overviews of the origins and legacy of the global architecture survey genre, as well as close examinations of key works, including books by lesser-known but intriguing authors such as Louisa C. Tuthill, Christian L. Stieglitz, and Daniel Ramée, and the more famous surveys by James Fergusson, Franz Kugler, Banister Fletcher, and Auguste Choisy. *Narrating the Globe* is an illuminating read for anyone interested in architectural history's long, complex, and often tendentious trajectory.

Petra Brouwer is an architectural historian at the University of Amsterdam who specializes in the history of modern architecture and town planning. Author of an award-winning study of postwar design of Dutch new towns, she has also served as editor-in-chief for the journal *Architectural Histories*. **Martin Bressani** is William C. Macdonald Professor at McGill University's Peter Guo-hua Fu School of Architecture in Montréal. Coeditor of the Nineteenth-Century Architecture volume of *The Companions to the History of Architecture*, he is also the author of *Architecture and the Historical Imagination: Eugène-Emmanuel Viollet-le-Duc*. **Christopher Drew Armstrong** is an associate professor at the University of Pittsburgh, where he directs the Architectural Studies program. His many publications include the book *Julien-David Leroy and the Making of Architectural History*.

The City in the City

Architecture and Change
in London's Financial District

Amy Thomas

An exploration of the dramatic transformation of London's financial district after 1945, viewed at four spatial scales: city, street, facade, interior.

In *The City in the City*, Amy Thomas offers the first in-depth architectural and urban history of London's financial district, the City of London, from the period of rebuilding after World War II to the explosive climax of financial deregulation in the 1980s and its long aftermath. Thomas examines abstract financial ideas, political ideology, and invisible markets as concrete realities; working on four spatial scales—city, street, facade, and interior—the book explores the grand plans, hidden alleys, neo-Georgian elevations, and sweaty dealing floors that have made the financial center work.

Moving from politics to sociology, institutions to bodies, development plans to office desks, Thomas unravels the rich entanglements between the structure of the UK's financial system and the structure of the environment in which it operates. Despite its physical and political centrality, this period of the City's architectural history occupies an academic lacuna. Longstanding prejudices about developer-led architecture and the real estate industry have obscured the postwar City's relevance. The book shows how, as currents of local government reform, nation-building, and globalization swept across Britain, the City became an ideological battleground for debates between politicians and financial institutions, real estate developers and architects, preservationists and so-called "proactive" planners throughout the latter half of the century.

The City of London is a place steeped in rich cultural and architectural heritage of immense national significance, yet it is also a highly privileged citadel at the core of global financial networks. *The City in the City* is both a critique and a celebration of this unique and complex place.

Amy Thomas is Assistant Professor of Architectural History at Delft University of Technology. She has published articles in *The Journal of Architecture, Grey Room, Architectural Theory Review,* and *ARCH+*.

architecture

December
6 1/4 x 9 1/2, 304 pp.
163 b&w illus.

US $30.00X/$41.00 CAN cloth
978-0-262-04841-5

The Stuff Games Are Made Of

Pippin Barr

A deep dive into practical game design through playful philosophy and philosophical play.

What are video games made of? And what can that tell us about what they mean? In *The Stuff Games Are Made Of*, experimental game maker Pippin Barr explores the materials of video game design. Taking the reader on a deep dive into eight case studies of his own games, Barr illuminates the complex nature of video games and video game design and the possibilities both offer for exploring ideas big and small.

Through a variety of engaging and approachable examples, Barr shows how every single aspect of a game—whether it is code, graphics, interface, or even time itself—can be designed with and related to the player experience. Barr's experimental approach, with its emphasis on highly specific elements of games, will leave readers armed with intriguing design philosophy, conceptual rigor, and diverse insights into the inner life of video games. Upon finishing this book, readers will be ready to think deeply about the nature of games, to dive into expressive and experimental game design themselves, or simply to play with a new and expanded mindset.

Pippin Barr is Associate Professor of Computation Arts at Concordia University. Barr has collaborated with artists including Marina Abramović and @seinfeld2000 and produced games about everything from airplane safety instructions to chess to parenting. He is the author of *How to Play a Video Game* and cohost of the podcast *GAMETHING*.

"If you love Pippin Barr's weird, delightful games as much as I do, imagine picking them up, like rocks in a garden, and discovering whole ecosystems of bugs and aliens had been living underneath. Reading this book is picking up those rocks."

—Ian Bogost, author of *Play Anything, How to Talk About Videogames*, and more

The Promise and Peril of Entrepreneurship

Job Creation and Survival among US Startups

Robert W. Fairlie, Zachary Kroff, Javier Miranda, and Nikolas Zolas

A clearer view of entrepreneurship, based on new comprehensive data, that upends what we know about job creation and survival among US startups.

Startups create jobs and power economic growth. That's an article of faith in the United States—but, as *The Promise and Peril of Entrepreneurship* reveals, our faith may be built on shaky ground. Economists Robert Fairlie, Zachary Kroff, Javier Miranda, and Nikolas Zolas—working with Census Bureau microdata—have developed a new data set, the Comprehensive Startup Panel, that tracks job creation and the survival of every startup in the country. In doing so, they recalibrate our understanding of how startups behave in the US economy. Specifically, their work seeks to answer three critical questions: How many jobs does each entrepreneur create? Do those jobs disappear quickly? And how long do entrepreneurial enterprises survive?

Job creation and survival rates are, the authors conclude, much lower than those reported by official federal sources. Such discrepancies emerge from the more comprehensive picture drawn from this new data set—a picture that, for instance, highlights the important but understudied differences between employer firms (startups that hire people) and nonemployer firms (startups that do not initially hire people but may do so in later years as they grow). This reframing captures the vast number of businesses that start with no employees, a number largely missing from the statistics underpinning the mythos of the riskiness of entrepreneurship.

"How much do startups matter for the dynamism of the economy? Using the best new data, *The Promise and Peril of Entrepreneurship* offers comprehensive answers that will be required reading for policy makers and researchers."

—David Card, Professor, UC Berkeley; co-recipient of 2021 Nobel memorial prize in economics

"This book takes an exciting new look at the definition of entrepreneurship in our country and sheds light on the value of the smallest businesses to our economy."

—Karen G. Mills, Senior Fellow, Harvard Business School; former Administrator, U.S. Small Business Administration

Robert Fairlie is Chair of Public Policy at UCLA Luskin. **Zachary Kroff** is an economist with the Center for Economic Studies at the US Census Bureau. **Javier Miranda** is Deputy Head of the Department of Structural Change and Productivity at the Halle Institute for Economic Research in Germany. He is also Associate Professor in Microeconomics, Productivity Research, at Friedrich Schiller University Jena. **Nikolas Zolas** is Senior Economist with the Center for Economic Studies at the US Census Bureau.

business

August
6 x 9, 232 pp.
40 b&w illus.
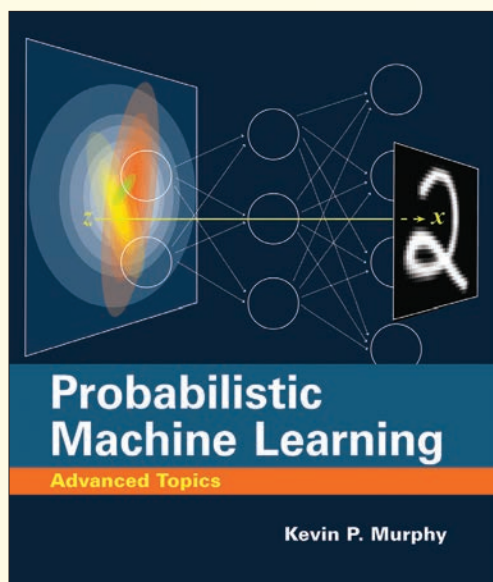
US $40.00X/$54.00 CAN paperback
978-0-262-54535-8

Probabilistic Machine Learning

Advanced Topics

Kevin P. Murphy

An advanced book for researchers and graduate students working in machine learning and statistics who want to learn about deep learning, Bayesian inference, generative models, and decision making under uncertainty.

An advanced counterpart to *Probabilistic Machine Learning: An Introduction*, this high-level textbook provides researchers and graduate students detailed coverage of cutting-edge topics in machine learning, including deep generative modeling, graphical models, Bayesian inference, reinforcement learning, and causality. This volume puts deep learning into a larger statistical context and unifies approaches based on deep learning with ones based on probabilistic modeling and inference. With contributions from top scientists and domain experts from places such as Google, DeepMind, Amazon, Purdue University, NYU, and the University of Washington, this rigorous book is essential to understanding the vital issues in machine learning.

- Covers generation of high dimensional outputs, such as images, text, and graphs

- Discusses methods for discovering insights about data, based on latent variable models

- Considers training and testing under different distributions

- Explores how to use probabilistic models and inference for causal inference and decision making

- Features online Python code accompaniment

Kevin P. Murphy is a research scientist at Google in Mountain View, California, where he works on artificial intelligence, machine learning, and Bayesian modeling.

computer science

August
8 x 9, 1360 pp.
350 color illus.

US $150.00X/$195.00 CAN cloth
978-0-262-04843-9

Adaptive Computation and Machine Learning series

"Kevin Murphy has already greatly benefited the machine learning community with his introductory book, and I am delighted to see the depth and breadth of material in his sequel on advanced topics."

—Yoshua Bengio, Professor of Computer Science and Operational Research, University of Montreal

"This book distills the literature on machine learning and neural networks into a wonderful resource for both new students and seasoned researchers. The chapter on generative models is a masterpiece."

—Geoffrey Hinton, Emeritus Professor of Computer Science, University of Toronto; Engineering Fellow, Google

Probabilistic Machine Learning
An Introduction

Kevin P. Murphy
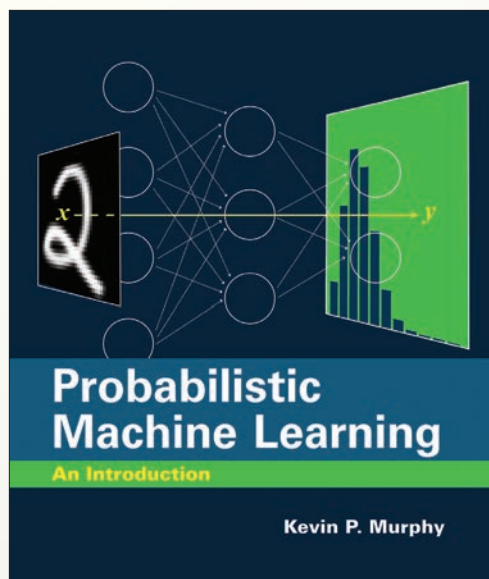
978-0-262-04682-4

Kevin Murphy's landmark work on probabilistic machine learning and Bayesian decision theory has been updated for the deep learning era. The first of two volumes, *Probabilistic Machine Learning: An Introduction*, makes machine learning accessible for advanced undergraduate courses. Its advanced counterpart, *Probabilistic Machine Learning: Advanced Topics*, offers researchers and graduate students an encyclopedic deep dive on essential topics and cutting-edge research in machine learning.

In use at dozens of institutions, including:

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Cal Poly

Purdue University

Penn State University

Texas A & M University

University of Kansas

Essentials of Compilation

An Incremental Approach in Python

Jeremy G. Siek

A hands-on approach to understanding and building compilers using the programming language Python.

Compilers are notoriously difficult programs to teach and understand. Most books about compilers dedicate one chapter to each progressive stage, a structure that hides how language features motivate design choices. By contrast, this innovative textbook provides an incremental approach that allows students to write every single line of code themselves. Jeremy Siek guides the reader in constructing their own compiler in the powerful object-oriented programming language Python, adding complex language features as the book progresses. *Essentials of Compilation* explains the essential concepts, algorithms, and data structures that underlie modern compilers and lays the groundwork for future study of advanced topics. Already in wide use by students and professionals alike, this rigorous but accessible book invites readers to learn by doing.

- **Deconstructs the challenge of compiler construction into bite-sized pieces**
- **Enhances learning by connecting language features to compiler design choices**
- **Develops understanding of how programs are mapped onto computer hardware**
- **Classroom-tested, hands-on approach suitable for students and professionals**
- **Extensive ancillary resources include source code and solutions**

"A fantastic hands-on introduction to compiler construction. Its incremental approach and use of Python make it very motivating. Just the book I've been waiting for when teaching undergrads and practitioners."
—Carl Friedrich Bolz-Tereick, Researcher, Heinrich-Heine-Universität Düsseldorf

Jeremy G. Siek is Professor of Computer Science at Indiana University and author of *The Boost Graph Library*. He invented gradual typing, a type system that integrates both dynamic and static typing in the same programming language.

computer science

August | 7 x 10, 232 pp. | 137 b&w illus.

US $50.00X/$66.00 CAN cloth
978-0-262-04824-8

Fairness and Machine Learning

Limitations and Opportunities

Solon Barocas, Moritz Hardt, and Arvind Narayanan

An introduction to the intellectual foundations and practical utility of the recent work on fairness and machine learning.

Fairness and Machine Learning introduces advanced undergraduate and graduate students to the intellectual foundations of this recently emergent field, drawing on a diverse range of disciplinary perspectives to identify the opportunities and hazards of automated decision-making. It surveys the risks in many applications of machine learning and provides a review of an emerging set of proposed solutions, showing how even well-intentioned applications may give rise to objectionable results. It covers the statistical and causal measures used to evaluate the fairness of machine learning models as well as the procedural and substantive aspects of decision-making that are core to debates about fairness, including a review of legal and philosophical perspectives on discrimination. This incisive textbook prepares students of machine learning to do quantitative work on fairness while reflecting critically on its foundations and its practical utility.

- **Introduces the technical and normative foundations of fairness in automated decision-making**
- **Covers the formal and computational methods for characterizing and addressing problems**
- **Provides a critical assessment of their intellectual foundations and practical utility**
- **Features rich pedagogy and extensive instructor resources**

Solon Barocas is a Principal Researcher in the New York City lab of Microsoft Research, where he is a member of the Fairness, Accountability, Transparency, and Ethics in AI (FATE) research group. He is Adjunct Assistant Professor in the Department of Information Science at Cornell University and Faculty Associate at the Berkman Klein Center for Internet & Society at Harvard University. **Moritz Hardt** is Director of Social Foundations of Computation at the Max Planck Institute for Intelligent Systems and coauthor of *Patterns, Predictions, and Actions: Foundations of Machine Learning*. **Arvind Narayanan** is Professor of Computer Science at Princeton University and Director of the Center for Information Technology Policy. His work was among the first to show how machine learning reflects cultural stereotypes, and he led the Princeton Web Transparency and Accountability Project to uncover how companies collect and use our personal information.

computer science

November | 7 x 9, 320 pp. | 40 b&w illus.

US $65.00X/$86.00 CAN cloth
978-0-262-04861-3

Understanding Deep Learning

Simon J. D. Prince

An authoritative, accessible, and up-to-date treatment of deep learning that strikes a pragmatic middle ground between theory and practice.

Deep learning is a fast-moving field with sweeping relevance in today's increasingly digital world. *Understanding Deep Learning* provides an authoritative, accessible, and up-to-date treatment of the subject, covering all the key topics along with recent advances and cutting-edge concepts. Many deep learning texts are crowded with technical details that obscure fundamentals, but Simon Prince ruthlessly curates only the most important ideas to provide a high density of critical information in an intuitive and digestible form. From machine learning basics to advanced models, each concept is presented in lay terms and then detailed precisely in mathematical form and illustrated visually. The result is a lucid, self-contained textbook suitable for anyone with a basic background in applied mathematics.

Simon J. D. Prince is Honorary Professor of Computer Science at the University of Bath and author of *Computer Vision: Models, Learning and Inference*. A research scientist specializing in artificial intelligence and deep learning, he has led teams of research scientists in academia and industry at Anthropics Technologies Ltd, Borealis AI, and elsewhere.

- Up-to-date treatment of deep learning covers cutting-edge topics not found in existing texts, such as transformers and diffusion models

- Short, focused chapters progress in complexity, easing students into difficult concepts

- Pragmatic approach straddling theory and practice gives readers the level of detail required to implement naive versions of models

- Streamlined presentation separates critical ideas from background context and extraneous detail

- Minimal mathematical prerequisites, extensive illustrations, and practice problems make challenging material widely accessible

- Programming exercises offered in accompanying Python Notebooks

computer science

December
8 x 9, 496 pp.
300 color illus.

US $90.00X/$119.00 CAN cloth
978-0-262-04864-4
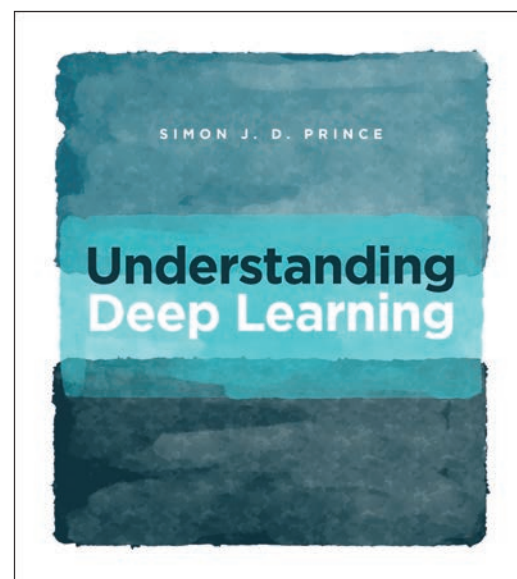
Automata Theory

An Algorithmic Approach

Javier Esparza and Michael Blondin

A comprehensive introduction to automata theory that uses the novel approach of viewing automata as data structures.

This textbook presents automata theory from a fresh viewpoint inspired by its main modern application, program verification, where automata are viewed as data structures for the algorithmic manipulation of sets and relations. This novel "automata as data structures" paradigm makes holistic connections between automata theory and other areas of computer science not covered in traditional texts, linking the study of algorithms and data structures with that of the theory of formal languages and computability. Javier Esparza and Michael Blondin provide incisive overviews of core concepts along with illustrated examples and exercises that facilitate quick comprehension of rigorous material.

- Uses novel "automata as data structures" approach
- Algorithm approach ideal for programmers looking to broaden their skill set and researchers in automata theory and formal verification
- The first introduction to automata on infinite words that does not assume prior knowledge of finite automata
- Suitable for both undergraduate and graduate students
- Thorough, engaging presentation of concepts balances description, examples, and theoretical results
- Extensive illustrations, exercises, and solutions deepen comprehension

Javier Esparza is Professor and Chair of Foundations of Software Reliability and Theoretical Computer Science at the Technical University of Munich and coauthor of *Free Choice Petri Nets* and *Unfoldings: A Partial-Order Approach to Model Checking.* **Michael Blondin** is Associate Professor of Computer Science at the Université de Sherbrooke.

computer science

October | 7 x 9, 640 pp. | 134 b&w illus.

US $80.00X/$105.00 CAN cloth
978-0-262-04863-7
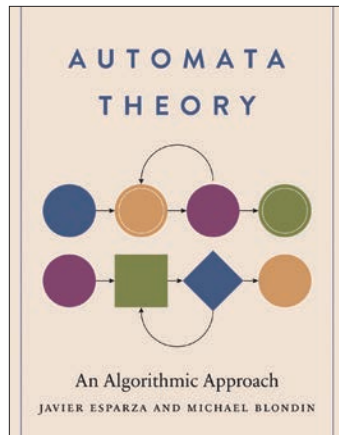
Causal Analysis

Impact Evaluation and Causal Machine Learning with Applications in R

Martin Huber

A comprehensive and cutting-edge introduction to quantitative methods of causal analysis, including new trends in machine learning.

Reasoning about cause and effect—the consequence of doing one thing versus another—is an integral part of our lives as human beings. In an increasingly digital and data-driven economy, the importance of sophisticated causal analysis only deepens. Presenting the most important quantitative methods for evaluating causal effects, this textbook provides graduate students and researchers with a clear and comprehensive introduction to the causal analysis of empirical data. Martin Huber's accessible approach highlights the intuition and motivation behind various methods while also providing formal discussions of key concepts using statistical notation. *Causal Analysis* covers several methodological developments not covered in other texts, including new trends in machine learning, the evaluation of interaction or interference effects, and recent research designs such as bunching or kink designs.
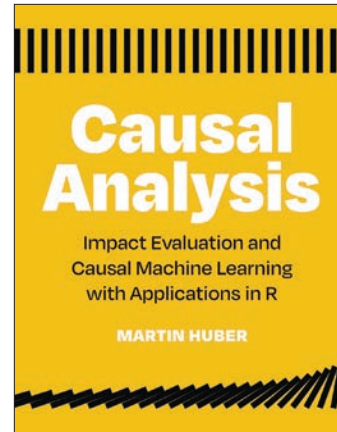
- Most complete and cutting-edge introduction to causal analysis, including causal machine learning
- Clean presentation of rigorous material avoids extraneous detail and emphasizes conceptual analogies over statistical notation
- Supplies a range of applications and practical examples using R

Martin Huber is Professor of Applied Econometrics at the University of Fribourg, Switzerland, where his research comprises both methodological and applied contributions in the fields of causal analysis and policy evaluation, machine learning, statistics, econometrics, and empirical economics.

economics

August | 7 x 9, 336 pp. | 40 b&w illus.

US $60.00X/$79.00 CAN paperback
978-0-262-54591-4

Computability and Complexity

Hubie Chen

A clear, comprehensive, and rigorous introduction to the theory of computation.

What is computable? What leads to efficiency in computation? *Computability and Complexity* offers a clear, comprehensive, and rigorous introduction to the mathematical study of the capabilities and limitations of computation. Hubie Chen covers the core notions, techniques, methods, and questions of the theory of computation before turning to several advanced topics. Emphasizing intuitive learning and conceptual discussion, this textbook's accessible approach offers a robust foundation for understanding both the reach and restrictions of algorithms and computers.

- **Extensive exercises and diagrams enhance streamlined, student-friendly presentation of mathematically rigorous material**

- **Includes thorough treatment of automata theory, computability theory, and complexity theory— including the P versus NP question and the theory of NP-completeness**

- **Suitable for undergraduate and graduate students, researchers, and professionals**

Hubie Chen is an academic at King's College London. He has held invited positions at École polytechnique, Humboldt-Universität zu Berlin, and Universität Wien.

computer science

August
7 x 9, 416 pp.
76 b&w illus.

US $65.00X/$86.00 CAN cloth
978-0-262-04862-0

"A beautifully comprehensive introduction to automata, computability, and complexity theory, including parameterized complexity—all presented with a high level of mathematical rigor."

—Ryan Williams, Professor of Electrical Engineering and Computer Science, MIT

"This book excels in both content and presentation. Computability and complexity are vast areas. Hubie Chen's book covers them well, introduces them nicely, and discusses the landmark theorems very carefully. The definitions are clear and well-motivated, while the results and full formal proofs are illustrated by well-chosen examples. Students, instructors, and computer scientists will surely love this fascinating book."

—Georg Gottlob, Professor of Informatics at Oxford University

Mind Design III

Philosophy, Psychology, and Artificial Intelligence

edited by John Haugeland, Carl F. Craver, and Colin Klein

The essential reader on the philosophical foundations and implications of artificial intelligence, now comprehensively updated for the twenty-first century.

In the quarter century since the publication of John Haugeland's *Mind Design II,* computer scientists have hit many of their objectives for successful artificial intelligence. Computers beat chess grandmasters, driverless cars navigate streets, autonomous robots vacuum our homes, and ChatGPT answers existential queries in iambic pentameter on command. Engineering has made incredible strides. But have we made progress in understanding and building minds? Comprehensively updated by Carl Craver and Colin Klein to reflect the astonishing ubiquity of machine learning in modern life, *Mind Design III* offers an essential collection of classic and contemporary essays on the philosophical foundations and implications of artificial intelligence. Contributions from a diverse range of philosophers and computer scientists address the nature of computation, the nature of thought, and the question of whether computers can be made to think. With extensive new material reflecting the explosive growth and diversification of AI approaches, this classic reader equips students to assess the possibility of, and progress toward, building minds out of computers.

New edition highlights:

- New chapters on advances in deep neural networks, reinforcement learning, and causal learning
- New material on the complementary intersection of neuroscience and AI
- Organized thematically rather than chronologically
- Brand new introductions to each section that include suggestions for coursework and further reading

The late **John Haugeland** was the David B. and Clara E. Stern Professor Emeritus in Philosophy at the University of Chicago. He was Chair of the Philosophy Department from 2004–2007 and was the editor of two editions of *Mind Design: Philosophy, Psychology, and Artifcial Intelligence*. **Carl F. Craver** is Professor of Philosophy and Philosophy-Neuroscience-Psychology at Washington University in St. Louis, author of *Explaining the Brain: Mechanisms and the Mosaic Unity of Neuroscience*, and coauthor of *In Search of Mechanisms: Discoveries across the Life Sciences*. **Colin Klein** is Professor of Philosophy at the Australian National University and author of *What the Body Commands: The Imperative Theory of Pain* (MIT Press).

philosophy

November | 7 x 9, 568 pp. | 24 b&w illus.

US $75.00X/$99.00 CAN paperback
978-0-262-54657-7

Microeconomics of Banking

third edition

Xavier Freixas and Jean-Charles Rochet

The third edition of a leading text on the microeconomic foundations of banking, comprehensively updated with new coverage of the 2008 Global Financial Crisis, fintech, and the latest research in banking theory.

The banking industry has undergone seismic change in the twenty-first century, from the overhaul of regulation in the wake of the 2008 Global Financial Crisis to the digitalization of the economy and the disruption of traditional business models by ascendant tech giants. Now in a comprehensively updated third edition, this essential graduate-level text on the microeconomic foundations of banking provides the rigorous theoretical approach required to understand these new structures and norms, functioning as a user's guide to recent academic literature. *Microeconomics of Banking* offers a comprehensive view of the evolution of banking theory and the rapidly changing realm of financial intermediation, examining the central issues and offering the necessary tools for understanding how they have been modeled.

New edition highlights:

- Up-to-date coverage of the latest research in banking theory as well as the events of the global financial crisis and resultant Basel III regulatory framework
- New chapters on liquidity and systemic risk
- New material throughout on cryptocurrencies, fintech, and other facets of a digitalized economy

Xavier Freixas is Emeritus Professor at Universitat Pompeu Fabra in Barcelona and Research Fellow at CEPR. **Jean-Charles Rochet** is Professor of Economics at the Toulouse School of Economics.

economics

August | 7 x 9, 228 pp. | 12 b&w illus.

US $80.00X/$105.00 CAN cloth
978-0-262-04819-4

Our Urban Future

An Active Learning Guide to Sustainable Cities

Emily Talen and Sabina Shaikh

A practical, comprehensive textbook that uses active learning techniques to teach about the challenges and opportunities associated with urban sustainability.

While the problem of urban sustainability has long been a subject of great scholarly interest, there has, until now, been no single source providing a multidisciplinary, exhaustive view of how it can be effectively taught. Filling this gap, *Our Urban Future* uses active learning techniques to comprehensively relate the theory of urban sustainability and the what, why, and how of sustainable cities.

This practical, pedagogically rich textbook concisely covers all the key subjects of the field, including ecosystem services and transects, the internal design and patterning of urban elements, how cities mitigate and adapt to climate change, and questions of environmental justice. It functions as both an illuminating roadmap and active reference to which any student of sustainability can turn to find essential resources and perspectives in pursuit of creating sustainable cities.

- Approachable, discrete exercises introduce students to key sustainability subjects
- Learn-by-doing approach encourages critically engaging from multiple angles
- Ideal for students across environmental sustainability, urban planning, urban design, urban studies, sociology architecture, landscape architecture, and geography
- Robust suite of ancillaries includes links and downloadable data to support activities, and additional readings and resources

Emily Talen is Professor of Urbanism at the University of Chicago, where she teaches urban design and directs the Urbanism Lab, and author of *Neighborhood*, among many other books. She is a Fellow of the American Institute of Certified Planners and the recipient of a Guggenheim Fellowship. **Sabina Shaikh** is Senior Instructional Professor in the Committee on Environment, Geography and Urbanization at the University of Chicago, where she is the Director of Academic Programs, and conducts research on environment and migration in Southeast Asia. She is the faculty director of Chicago Studies and the co-lead of the Environmental Frontiers Initiative at the Mansueto Institute for Urban Innovation.

urban studies | environment

December | 7 x 10, 176 pp. | 26 color illus., 4 b&w illus.

US $40.00X/$54.00 CAN paperback
978-0-262-54684-3

The Foundations of Population Genetics

Daniel M. Weinreich

An accessible but rigorous treatment of the theoretical foundations of population genetics.

Population genetics—the branch of evolutionary biology concerned with understanding how and why populations' genetic compositions change over time—rests on a well-developed theoretical foundation that draws on genetics, mathematics, and computer science. This textbook provides an approachable but rigorous treatment for advanced undergraduate and graduate students interested in building a quantitative understanding of the genetics of evolution.
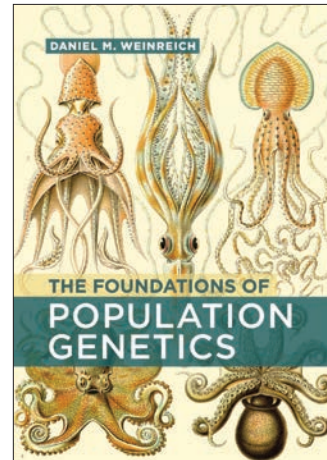
Existing texts either assume very mathematically advanced readers, or avoid much of the underlying theory, instead focusing on current methods of data analysis. In contrast, *The Foundations of Population Genetics* develops the theory from first principles. Requiring only confidence in algebra, this self-contained, student-friendly book illustrates the conceptual framework, terminology, and methods of mathematical modeling. It progressively introduces concepts from genetics as needed, while emphasizing biological implications throughout. As a result, readers come away with a deep understanding of the structure of population genetics without needing to master its mathematics.

- Connects theory with the most recent genetic data better than existing texts
- Features engaging real-world examples and extensive original figures
- Provides dozens of carefully scaffolded questions that deepen the reader's understanding of key concepts
- Ideal as a succinct reference for established scientists in biology, medicine, and computer science
- Instructor resources available

Daniel M. Weinreich is Royce Professor of Teaching Excellence in Biology at Brown University.

science | genetics

August | 7 x 10, 256 pp. | 50 color illus.

US $50.00X/$66.00 CAN cloth
978-0-262-04757-9

An Introduction to System Safety Engineering

Nancy G. Leveson

A comprehensive, up-to-date introduction to the foundations of classical safety engineering, with an emphasis on preparing for future challenges.

Systems today are orders of magnitude more complex than in the past, and their complexity is increasing exponentially. Preventing accidents and losses in such systems 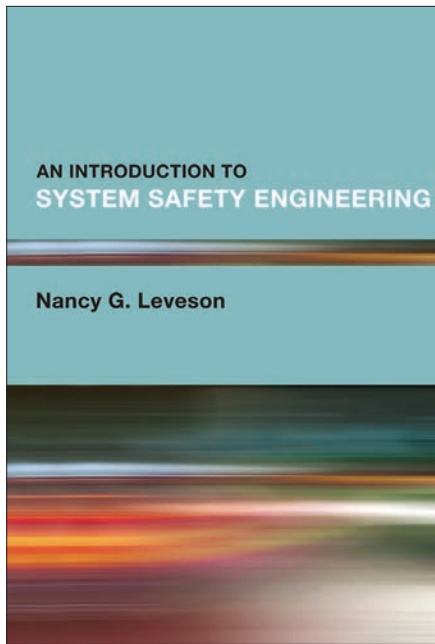requires a holistic perspective that can accommodate unprecedented types of technology and design. This textbook teaches the foundations of classical safety engineering while incorporating the principles of systems thinking and systems theory. Beginning with the framing and lessons of her classic text, *Safeware*, Nancy Leveson builds on established knowledge and brings the field up to date, challenging old approaches and introducing new ones. This essential book provides the core information required to build safety-critical systems today and in the future, including coverage of the historical and legal frameworks in which the field operates as well as discussions of risk, ethics, and policy implications.

- **Presents cutting-edge concepts anticipating the safety challenges of the future alongside thorough treatment of historical practices and ideas**

- **Provides a comprehensive introduction to the foundations of safety engineering**

- **Covers accident analysis, hazard analysis, design for safety, human factors, management, and operations**

- **Incorporates extensive examples of real-world accidents and applications**

- **Ideal for students new to safety engineering as well as professionals looking to keep pace with a rapidly changing field**

Nancy G. Leveson is Professor of Aeronautics and Astronautics and Engineering Systems at MIT and author of *Engineering a Safer World: Systems Thinking Applied to Safety* (MIT Press). A leader in the field of system safety engineering, she has worked in almost every industry to improve analysis, design, management, and operation of safety-critical systems.
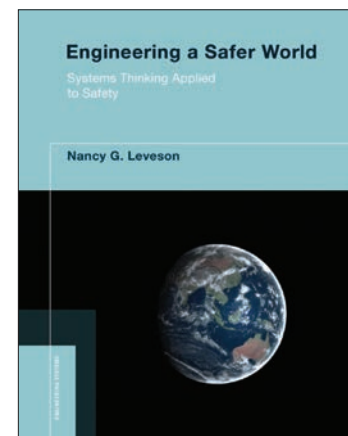
engineering

November
7 x 10, 688 pp.
96 b&w illus.

US $75.00X/$99.00 CAN cloth
978-0-262-54688-1

Also available

978-0-262-53369-0

After Eating

Metabolizing the Arts

Lindsay Kelley

An exploration of food, ingestion, and digestion in the emerging field of the metabolic arts.

Food appears everywhere in the arts. But what happens after viewers carry food away in the intestinal networks activated by social practice art, the same way digestion turns food into a body? Exploring the emerging field of metabolic arts, *After Eating* claims digestion and metabolism as key cultural, creative, and political processes that demand attention. Taking an artist-centered approach to nutrition, Lindsay Kelley cultivates a neglected middle ground between the everyday and the scientific, using metabolism as a lens through which to read and write about art.

Divided into two parts and full of playful chapter titles such as "Food Babies" and "Poop Circus," *After Eating* investigates multiple facets of the sociocultural implications of body image and body process in body art from the 1970s to the present. By engaging the notion of "after" as an artistic homage or tribute, metabolism moves beyond the cell to transform into a method for responding to the most difficult cultural, philosophical, and political challenges of the contemporary moment. Metabolic reading rethinks feminist, queer, bioart, installation, and performance projects, providing artists, students, and teachers new pathways into art theory.

Lindsay Kelley is Senior Lecturer at the School of Art and Design, College of Arts and Social Sciences, Australian National University. The recipient of an Australian Research Council Discovery Early Career Researcher Award, she is the author of *Bioart Kitchen: Art, Feminism and Technoscience* and has exhibited and performed internationally.

art

December | 6 x 9, 296 pp. | 21 color illus., 24 b&w illus.

US $40.00X/$54.00 CAN paperback
978-0-262-54563-1

A Leonardo Book

Tactical Publishing

Using Senses, Software, and Archives in the Twenty-First Century

Alessandro Ludovico

foreword by Nick Montfort

How to level up to the next transformative phase of publishing.

Publishing is experiencing one of the most transformative phases in its history. In *Tactical Publishing*, a sequel to *Post-Digital Print*, Alessandro Ludovico explores the forces driving this historical phase, highlighting the tremendous opportunities it presents. Our task, he believes, is to develop an alternative publishing system that transcends the dichotomy between paper and digital media. He focuses first on the two activities on which publishing is premised—reading and writing (with an emphasis on writing machines and post-truth in the latter)—and then deconstructs the concept, proposing alternative strategies inspired by recent practices and unconventional uses of technology.

Ludovico shows how the radical and strategic use of print in the past can serve as the basis for our transition to the next phase of publishing. He argues that the new ecology of publishing should be based on three main elements: the stimulation of our senses, the role of software in forming the publishing infrastructure, and the importance of archives. During this transition from the current post-digital phase to the next phase, independent publishers and artists, as well as readers and machines, will enable new structures and actions that realize the potential of publishing and the preservation of content, thereby enriching social practices. The author also considers the crucial social role played by new forms of libraries, as artists and publishers shape the coming publishing world in its various manifestations. Combining analytical accounts of tactical strategies with examples from artworks and experimental practices, the book concludes with a manifesto for publishing in the twenty-first century and an appendix with a selection of one hundred publications representing the "periodic table" of future publishing.

Alessandro Ludovico is Associate Professor at the Winchester School of Art, University of Southampton.

media studies

November | 6 x 9, 320 pp. | 52 b&w illus.

US $45.00X/$60.00 CAN paperback
978-0-262-54205-0

A Leonardo Book

Picture-Work

How Libraries, Museums, and Stock Agencies Launched a New Image Economy

Diana Kamin

How the image collection, organized and made available for public consumption, came to define a key feature of contemporary visual culture.

The origins of today's kaleidoscopic digital visual culture are many. In this book, Diana Kamin traces the sharing of photographs to an image economy developed throughout the twentieth century by major institutions. *Picture-Work* examines how three of these institutions—the New York Public Library, the Museum of Modern Art, and the stock agency H. Armstrong Roberts Inc.—defined the public's understanding of what the photographic image is, while building vast collections with universalizing ambitions. Highlighting underexplored figures, such as the first rights and reproduction manager at MoMA Pearl Moeller and visionary NYPL librarian Romana Javitz, and underexplored professional practices, Diana Kamin demonstrates how bureaucratic work communicates ideas about images to the public.

Kamin artfully shows how the public interfaces with these image collections through systems of classification and protocols of search and retrieval. These interactions, in turn, shape contemporary image culture, including concepts of authorship, art, property, and value, as well as logics of indexing, tagging, and hyperlinking. Together, these interactions have forged a concept of the image as alienable content, which has intensified with the advent of digital techniques for managing image collections. To survey the complicated process of digitization in the nineties and early aughts, Kamin also includes interviews with photographers, digital asset management system designers, librarians, and artists on their working practices.

Diana Kamin is Advanced Lecturer in the Department of Communication and Media Studies at Fordham University in New York. Her research has been published in *Information & Culture*, *Journal of Visual Culture*, and *Artforum*, among other publications.

media studies | information science

November | 6 x 9, 320 pp. | 52 b&w photos

US $40.00X/$54.00 CAN paperback
978-0-262-54700-0

History and Foundations of Information Science series

Dark Star

A New History of the Space Shuttle

Matthew H. Hersch

A captivating history of NASA's Space Transportation System—the space shuttle—chronicling the inevitable failures of a doomed design.

In *Dark Star*, Matthew Hersch challenges the existing narrative of the most significant human space program of the last fifty years, NASA's space shuttle. He begins with the origins of the space shuttle: a century-long effort to develop a low-cost, reusable, rocket-powered airplane to militarize and commercialize space travel, which Hersch explains was built the wrong way, at the wrong time, and for all the wrong reasons. Describing the unique circumstances that led to the space shuttle's creation by the administration of President Richard Nixon in 1972 and its subsequent flights from 1981 through 2011, Hersch illustrates how the space shuttle was doomed from the start.

While most historians have accepted the view that the space shuttle's fatal accidents—including the 1986 Challenger explosion—resulted from deficiencies in NASA's management culture that lulled engineers into a false confidence in the craft, *Dark Star* reveals the widespread understanding that the shuttle was predestined for failure as a technology demonstrator. The vehicle was intended only to give the United States the appearance of a viable human spaceflight program until funds became available to eliminate its obvious flaws. Hersch's work seeks to answer the perilous questions of technological choice that confront every generation, and it is a critical read for anyone interested in how we can create a better world through the things we build.

Matthew Hersch is Associate Professor of the History of Science at Harvard University. He is author of *Inventing the American Astronaut*, coauthor of *A Social History of American Technology*, and coeditor of *War and Peace in Outer Space: Law, Policy, and Ethics*.

technology

December | 6 x 9, 320 pp. | 33 b&w illus.

US $45.00X/$60.00 CAN paperback
978-0-262-54672-0

Cracking the Bro Code

Coleen Carrigan

Why dominant racial and gender groups have preferential access to jobs in computing, and how feminist labor activism in computing culture can transform the field.

Cracking the Bro Code is a bold ethnographic study of sexism and racism in contemporary computing cultures theorized through the analytical frame of the "Bro code." Drawing from feminist anthropology and STS, Coleen Carrigan shares in this book the direct experiences of women, nonbinary individuals, and people of color, including her own experiences in tech, to show that computing has a serious cultural problem. From senior leaders in the field to undergraduates in their first year of college, participants consistently report how sexism and harassment manifest themselves in computing via values, norms, behaviors, evaluations, and policies. While other STEM fields are making strides in recruiting, retaining, and respecting women workers, computing fails year after year to do so.

Carrigan connects altruism, computing, race, and gender to advance the theory that social purpose is an important factor to consider in working toward gender equity in computing. Further, she argues that transforming computing culture from hostile to welcoming has the potential to change not only who produces computing technology but also the core values of its production, with possible impacts on social applications. *Cracking the Bro Code* explains how digital bosses have come to operate imperiously in our society, dodging taxes and oversight, and how some programmers who look like them are enchanted with a sense of divine right. In the context of computing's powerful influence on the world, Carrigan speculates on how the cultural mechanisms sustaining sexism, harassment, and technocracy in computing workspaces impact both those harmed by such violence as well as society at large.

Coleen Carrigan is Associate Professor of Anthropology and Science, Technology and Society (STS) at California Polytechnic State University, San Luis Obispo. She is a recipient of a five-year National Science Foundation Faculty Early Career Development (CAREER) Award for her research into the intersections of gender, race, and social values in computing.

gender studies | technology studies

January | 6 x 9, 248 pp.

US $40.00X/$54.00 CAN paperback
978-0-262-54705-5

Labor and Technology series

Inventing the Working Parent

Work, Gender, and Feminism in Neoliberal Britain

Sarah E. Stoller

The first historical examination of working parenthood in the late twentieth century—and how the concepts of "family-friendly" work culture and "work–life balance" came to be.

Since the 1980s, families across the developed West have lived through a revolution on a scale unprecedented since industrialization. With more mothers than ever before in paid work and the rise of the middle-class, dual-income household, we have entered a new era in the history of everyday life: the era of the working parent. In *Inventing the Working Parent*, Sarah Stoller charts the politics that shaped the creation of the phenomenon of working parenthood in Britain as it arose out of a new culture of work.

Stoller begins with the first sustained efforts by feminists to mobilize politically on behalf of working parents in the late 1970s and concludes in the context of an emerging national political agenda for working families with the rise of New Labour in the 1990s. She explores how and why the notion of working parenthood emerged as a powerful new political claim and identity category and addresses how feminists used the concept of working parenthood to advocate for new organizational policies and practices. Lastly, Stoller shows how neoliberal capitalism under Margaret Thatcher and subsequent New Labour governments made a family's ability to survive on one income nearly impossible—with significant consequences for individual experience, the gendered division of labor, and intimate life.

Sarah E. Stoller is a historian and freelance writer. Her writing on care work, feminism, gender, and motherhood as well as popular culture and the crisis of higher education has appeared in *Slate*, the *Los Angeles Review of Books*, *Aeon Magazine*, *Salon*, *Jezebel*, the *Washington Post*, and *History Workshop Journal*.

history | gender studies

August | 6 x 9, 304 pp. | 10 b&w illus.
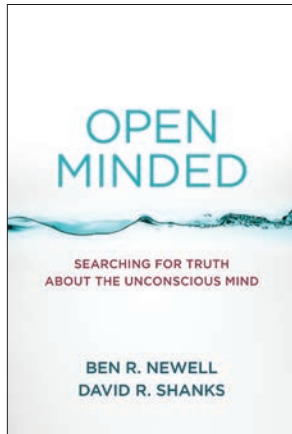
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978-0-262-54610-2
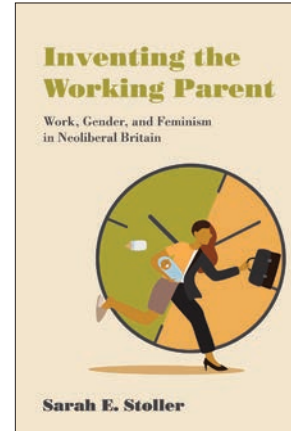
Open Minded

Searching for Truth about the Unconscious Mind

Ben R. Newell and David R. Shanks

A provocative look at the unconscious mind that challenges contemporary perceptions and exposes the indefensible science that fostered them.

How much of a role does the unconscious play in our decision making? In *Open Minded: Searching for Truth about the Unconscious Mind*, authors Ben Newell and David Shanks would argue: not very much. Behavioral science and public discourse have placed an outsized emphasis on the unconscious mind when it comes to understanding human behavior. Pursuing trails of fraud, intrigue, and claims about the power of unconscious thought, Newell and Shanks scrutinize the science that has contributed to our conventional wisdom and offer an important counterpoint to the ever-stronger traction that the unconscious mind has gained in public debate, such as the now ubiquitous claim that unconscious bias plays a large role in people's decisions and behavior.

Open Minded is divided into two sections: the first examines the modern understanding of the conscious mind, and the second shifts the focus to how to reform current research. Focusing on the core processes of decision making, Newell and Shanks cut through many questionable claims about unconscious behavior. Then, they delve into the nuts-and-bolts of methodology, challenging not only psychology and the behavioral sciences but also medicine and science more broadly. In this against-the-grain approach, Newell and Shanks chart new possibilities for how we may be more open to understanding how our minds actually work.

Ben R. Newell is Professor of Psychology and Deputy Head of the School of Psychology at UNSW Sydney. **David R. Shanks** is Professor of Psychology and Deputy Dean of the Faculty of Brain Sciences at University College London. Together they are the coauthors of *Straight Choices: The Psychology of Decision Making*.

cognitive science

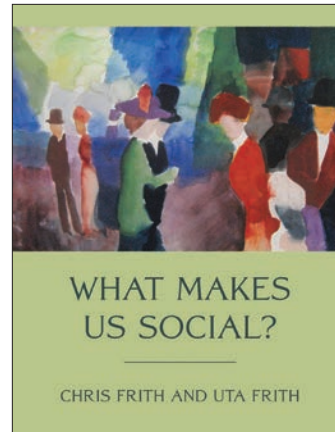August | 6 x 9, 232 pp. | 20 b&w illus.

US $45.00X/$60.00 CAN paperback
978-0-262-54619-5

What Makes Us Social?

Chris Frith and Uta Frith

A deep dive into the social mind-brain, examining the processes we share with other social animals and illuminating those that are uniquely human.

What Makes Us Social? is a scholarly but accessible exploration of the underlying processes that make humans the most social species on the planet. Chris and Uta Frith, pioneers in the field of cognitive neuroscience, review the many forms of social behavior that we humans share with other animals and examine the special form that only humans possess, including its dark side. These uniquely human abilities allow us to reflect on our behavior and share these reflections with other people. This allows us to reason why we do things and to exert some control over our automatic behaviors. As a result, we can learn cooperatively with others and create and value cultural artifacts that survive through the generations.

Going beyond how we come to know ourselves and understand the mind of others, Frith and Frith investigate how we adapt mutually to make social interactions work. This book stands out in its application of a computational framework—one that lies at the intersection of psychology and artificial intelligence—to key concepts of social cognition, such as empathy, trust, group identity, and reputation management. Ultimately, *What Makes Us Social?* is a profound examination of the ways we communicate, cooperate, share, and compete with other humans and how these capabilities define us as a species.

Chris Frith is Emeritus Professor of Neuropsychology at the Wellcome Centre for Human Neuroimaging at University College London and Honorary Research Fellow, Institute of Philosophy, University of London. He is author of *Making up the Mind: How the Brain Creates our Mental World*. **Uta Frith** is Emeritus Professor of Cognitive Development at the Institute of Cognitive Neuroscience at University College Lone. She is author of *Autism: Explaining the Enigma*. The Friths jointly received the European Latsis Prize in 2009 for their contribution to understanding the human mind and brain, the Jean Nicod Prize in 2014 for their work on social cognition, and the Social and Affective Neuroscience Society's Distinguished Scholar Award in 2021. The Friths jointly received the European Latsis Prize in 2009 for their contribution to understanding the human mind and brain, the Jean Nicod Prize in 2014 for their work on social cognition, and the Social and Affective Neuroscience Society's Distinguished Scholar Award in 2021.

cognitive science

September | 7 x 9, 422 pp. | 73 b&w illus.

US $50.00X/$66.00 CAN paperback
978-0-262-54627-0

From Geometry to Behavior

An Introduction to Spatial Cognition

Hanspeter A. Mallot

An overview of the mechanisms and evolution of spatial cognition, integrating evidence from psychology, neuroscience, cognitive science, and computational geometry.

Understanding how we deal with space requires input from many fields, including ethology, neuroscience, psychology, cognitive science, linguistics, geography, and spatial information theory. In *From Geometry to Behavior*, cognitive neuroscientist Hanspeter Mallot provides an overview of the basic mechanisms of spatial behavior in animals and humans, showing how they combine to support higher-level performance. Mallot explores the biological mechanisms of dealing with space, from the perception of visual space to the constructions of large space representations: that is, the cognitive map. The volume is also relevant to the epistemology of spatial knowledge in the philosophy of mind.

Mallot aims to establish spatial cognition as a scientific field in its own right. His general approach is psychophysical, in that it focuses on quantitative descriptions of behavioral performance and their real-world determinants, thus connecting to the work of theorists in computational neuroscience, robotics, and computational geometry. After an overview of scientific thinking about space, Mallot covers spatial behavior and its underlying mechanisms in the order of increasing memory involvement. He describes the cognitive processes that underlie advanced spatial behaviors such as directed search, wayfinding, spatial planning, spatial reasoning, object building and manipulation, and communication about space. These mechanisms are part of the larger cognitive apparatus that also serves visual and object cognition; understanding events, actions, and causality; and social cognition, which includes language. Of all of these cognitive domains, spatial cognition most likely occurred first in the course of evolution and is the most widespread throughout the animal kingdom.

Hanspeter A. Mallot is Professor of Cognitive Neuroscience at the University of Tübingen. He is the author of *Computational Vision: Information Processing in Perception and Visual Behavior* (MIT Press).

cognitive science

January | 7 x 9, 296 pp. | 6 color illus., 68 b&w illus.

US $75.00X/$99.00 CAN paperback
978-0-262-54711-6

Programming Your GPU with OpenMP

Performance Portability for GPUs

Tom Deakin and Timothy G. Mattson

The essential guide for writing portable, parallel programs for GPUs using the OpenMP programming model.

Today's computers are complex, multi-architecture systems: multiple cores in a shared address space, graphics processing units (GPUs), and specialized accelerators. To get the most from these systems, programs must use all these different processors. In *Programming Your GPU with OpenMP*, Tom Deakin and Timothy Mattson help everyone, from beginners to advanced programmers, learn how to use OpenMP to program a GPU using just a few directives and runtime functions. Then programmers can go further to maximize performance by using CPUs and GPUs in parallel—true heterogeneous programming. And since OpenMP is a portable API, the programs will run on almost any system.

Programming Your GPU with OpenMP shares best practices for writing performance portable programs. Key features include:

- **The most up-to-date APIs for programming GPUs with OpenMP with concepts that transfer to other approaches for GPU programming.**

- **Written in a tutorial style that embraces active learning, so that readers can make immediate use of what they learn via provided source code.**

- **Builds the OpenMP GPU Common Core to get programmers to serious production-level GPU programming as fast as possible.**

Additional features:

- **A reference guide at the end of the book covering all relevant parts of OpenMP 5.2.**

- **An online repository containing source code for the example programs from the book—provided in all languages currently supported by OpenMP: C, C++, and Fortran.**

- **Tutorial videos and lecture slides.**

Tom Deakin is Lecturer in Advanced Computer Systems at the University of Bristol, researching the performance portability of massively parallel high performance simulation codes. He has given tutorials and lecture series on parallel programming models including OpenMP, SYCL, and OpenCL.
Timothy G. Mattson is a senior principal engineer at Intel where he's worked since 1993 on: the first TFLOP computer; the creation of MPI, OpenMP, and OpenCL; HW/SW co-design of many-core processors; data management systems; and the GraphBLAS API for expressing graph algorithms as sparse linear algebra.

computer science

November | 8 x 9, 328 pp. | 120 b&w illus.

US $80.00X/$105.00 CAN paperback
978-0-262-54753-6

Scientific and Engineering Computation series

Autographic Design

The Matter of Data in a Self-Inscribing World

Dietmar Offenhuber

An ambitious vision for design based on the premise that data is material, not abstract.

Data analysis and visualization are crucial tools in today's society, and digital representations have steadily become the default. Yet, more and more often, we find that citizen scientists, environmental activists, and forensic amateurs are using analog methods to present evidence of pollution, climate change, and the spread of disinformation. In this illuminating book, Dietmar Offenhuber presents a model for these practices, a model to make data generation accountable: autographic design.

Autographic refers to the notion that every event inscribes itself in countless ways. Think of a sundial, for example, a perfectly autographic device that displays information on itself. Inspired by such post-digital practices of visualization and evidence construction, Offenhuber describes an approach to visualization based on the premise that data is a material entity rather than an abstract representation. Emerson wrote, "Every act of the man inscribes itself in the memories of his fellows, and in his own manners and face." In *Autographic Design*, Offenhuber introduces a model for design that emphasizes traces, imprints, and self-inscriptions, turning them into sensory displays.

In an age where misinformation is harder and harder to identify, *Autographic Design* makes an urgent and persuasive case for a different approach that calls attention to the production of data and its connection to the material world.

Dietmar Offenhuber is Associate Professor and Chair of the Department of Art + Design at Northeastern University, with a joint appointment in the School of Public Policy and Urban Affairs. He is currently a visiting scholar at Harvard metaLAB and was recently a fellow at the Princeton-Mellon Initiative in Architecture, Urbanism, and the Humanities. He is the author of the award-winning *Waste Is Information* (MIT Press).

data science | technology studies

December | 6 x 9, 288 pp. | 21 color illus., 29 b&w illus.

US $40.00X/$54.00 CAN paperback
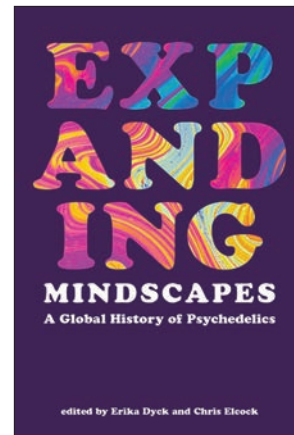978-0-262-54702-4

metaLABprojects series

Expanding Mindscapes

A Global History of Psychedelics

edited by Erika Dyck and Chris Elcock

The first collection of its kind to explore the diverse and global history of psychedelics as they appealed to several generations of researchers and thinkers.

Expanding Mindscapes offers a fascinatingly fluid and diverse history of psychedelics that stretches around the globe. While much of the literature to date has focused on the history of these drugs in the United States and Canada, editors Erika Dyck and Chris Elcock deliberately move away from these places in this collection to reveal a longer and more global history of psychedelics, which chronicles their discovery, use, and cultural impact in the twentieth century.

The authors in this collection explore everything from LSD psychotherapy in communist Czechoslovakia to the first applications of LSD-25 in South America to the intersection of modernism and ayahuasca in China. Along the way, they also consider how psychedelic experiments generated their own cultural expressions, where the specter of the United States may have loomed large and where colonial empires exerted influence on the local reception of psychedelics in botanical and pharmaceutical pursuits.

Breaking new ground by adopting perspectives that are currently lacking in the historiography of psychedelics, this collection adds to the burgeoning field by offering important discussions on underexplored topics such as gender, agriculture, parapsychology, anarchism, and technological innovations.

Erika Dyck is Professor and Canada Research Chair in the History of Health & Social Justice at the University of Saskatchewan. She is the author of *Psychedelic Psychiatry* and *Facing Eugenics*; coauthor of *Managing Madness, Challenging Choices*, and *The Acid Room*; and coeditor of *Psychedelic Prophets*, *A Culture's Catalyst*, and *Wonder Drug*. Erika is also a Board Member of Chacruna Institute for Psychedelic Plants and Associate Director of Chacruna Canada. **Chris Elcock** is an award-winning independent historian of psychedelics who has authored *Psychedelic New York: A History of LSD in the City*, along with several articles on the history of the American psychedelic movement.

psychology | medical

November | 6 x 9, 528 pp.
6 color illus., 21 b&w illus.
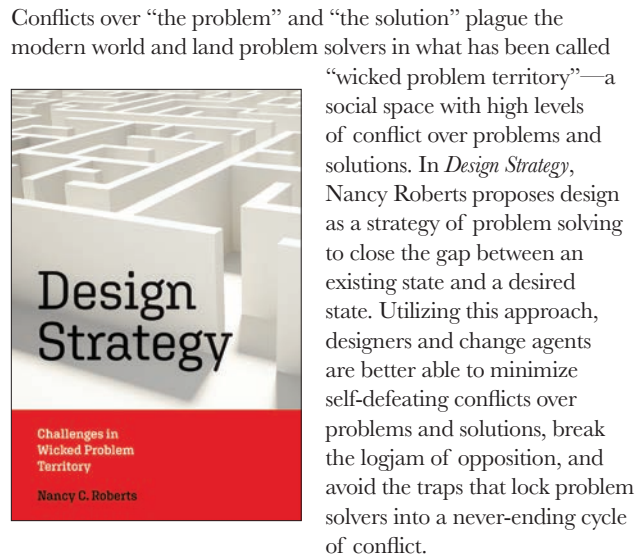
US $55.00X/$73.00 CAN paperback
978-0-262-54693-5

Design Strategy

Challenges in Wicked Problem Territory

Nancy C. Roberts

A new approach to addressing the contemporary world's most difficult challenges, such as climate change and poverty.

Conflicts over "the problem" and "the solution" plague the modern world and land problem solvers in what has been called "wicked problem territory"—a social space with high levels of conflict over problems and solutions. In *Design Strategy*, Nancy Roberts proposes design as a strategy of problem solving to close the gap between an existing state and a desired state. Utilizing this approach, designers and change agents are better able to minimize self-defeating conflicts over problems and solutions, break the logjam of opposition, and avoid the traps that lock problem solvers into a never-ending cycle of conflict.

Design as a field continues to grow and evolve, but *Design Strategy* focuses on three levels of design where "wicked problems" tend to lurk—strategic design (of private and public organizations), systemic design (of networked and overlapping economic, technical, political, and social subsystems), and regenerative design (of life-giving realignment between humanity and nature). Within this framework, Roberts presents refreshingly interdisciplinary case studies that integrate theory and practice across diverse fields to guide professionals in any domain—from business and nonprofit organizations to educational and healthcare systems—and finally offers hope that humanity can tackle the existential challenges we face in the twenty-first century.

Nancy C. Roberts is Professor Emerita of Defense Analysis in the School of Operational and Information Sciences at the Naval Postgraduate School in Monterey, California. In her research, writing, teaching, and consulting, Roberts uses design strategy to assist business and government leaders in becoming more creative, open-minded, and innovative problem solvers.

design

November | 7 x 10, 512 pp. | 32 b&w illus.
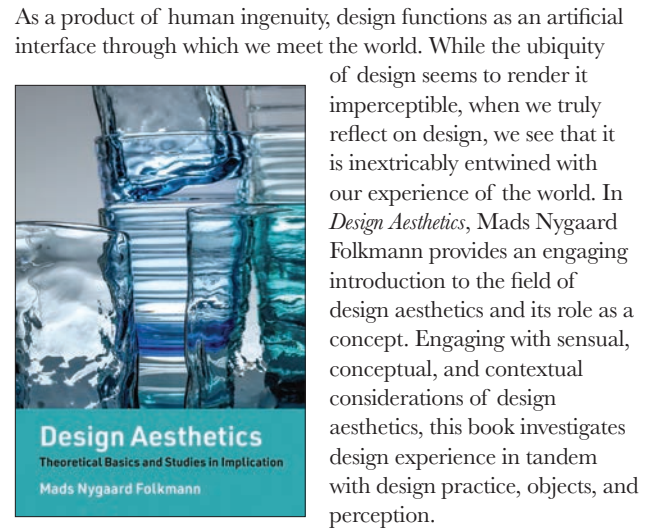
US $55.00X/$60.00 CAN paperback
978-0-262-54681-2

Design Thinking, Design Theory series

Design Aesthetics

Theoretical Basics and Studies in Implication

Mads Nygaard Folkmann

An original exploration of the role of aesthetics in contemporary design, uniquely combining philosophical aesthetics and cultural analysis of design.

As a product of human ingenuity, design functions as an artificial interface through which we meet the world. While the ubiquity of design seems to render it imperceptible, when we truly reflect on design, we see that it is inextricably entwined with our experience of the world. In *Design Aesthetics*, Mads Nygaard Folkmann provides an engaging introduction to the field of design aesthetics and its role as a concept. Engaging with sensual, conceptual, and contextual considerations of design aesthetics, this book investigates design experience in tandem with design practice, objects, and perception.

Part one of *Design Aesthetics* lays the theoretical foundation by differentiating between sensual, conceptual, and contextual dimensions of design aesthetics and clarifying what "aesthetic experience" means in relation to design. The second part of the book consists of studies in implications of design aesthetics for design practice, design objects with embedded technology, and the construction of perception of aesthetic qualities in objects. In its focus on design aesthetics, the book is intended for everyone working with design—design students, designer researchers, and designers—as well as students and researchers in aesthetics in general.

Mads Nygaard Folkmann is Professor of Design Studies at the Department of Design and Communication, University of Southern Denmark. He is the author of *The Aesthetics of Imagination in Design* (MIT Press) and *Designkultur: Teoretiske perspektiver på design*.

design

September | 6 x 9, 384 pp. | 51 b&w illus.
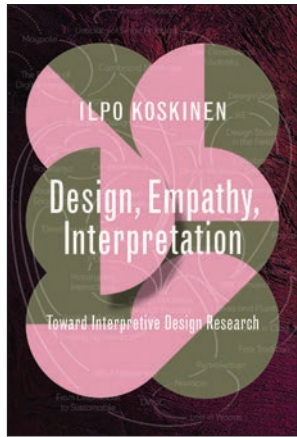
US $50.00X/$66.00 CAN paperback
978-0-262-54631-7

Design, Empathy, Interpretation

Toward Interpretive Design Research

Ilpo Koskinen

A new, empathic approach to design research, drawn from the informed experiences of a leading design research program in Finland.

Design, Empathy, Interpretation tells the story of empathic design, a design research program at Aalto University in Helsinki, Finland, that has developed an interpretive approach to design over the past twenty years. As one of the leaders of the Helsinki group, Ilpo Koskinen draws on his own experiences to offer readers a general intellectual and professional history of design research, and argues for what he calls an interpretive approach. *Design, Empathy, Interpretation* shows how the group has created connections all across the globe, and how a seemingly soft approach to design research can be useful in both industry and government.

Koskinen follows design research's transformation from questions of usability, in the 1980s, through to the revolution in personal electronics and the "user-centered" turn of the 1990s. Using the research community in Helsinki as a case study, and moving between specific projects and theoretical debates, he offers readers a focused introduction to the major methodological and intellectual challenges—as well as the opportunities—of design research. He argues that all design tasks, however simple or complex, begin with understanding the way humans ascribe meaning, both as individuals and as actors in complex societies. Thus all design research must be interpretive at its core.

Ilpo Koskinen is Professor at the University of New South Wales. He is the coauthor of *Empathic Design, Design Research through Practice: From the Lab, Field, and Showroom*, and *Drifting by Intention: Four Epistemic Traditions from within Constructive Design Research*.

design

August | 6 x 9, 200 pp. | 20 b&w illus.
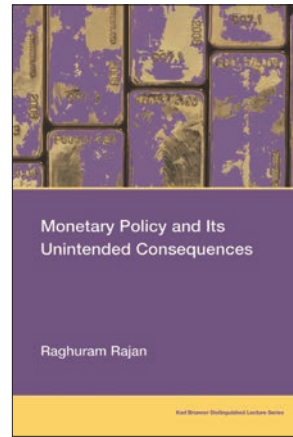
US $35.00X/$48.00 CAN paperback
978-0-262-54692-8

Design Thinking, Design Theory series

Monetary Policy and Its Unintended Consequences

Raghuram Rajan

A call for an end to aggressive monetary policy and a return to smart growth from an eminent researcher and former central banker.

Central banks took extraordinary measures to stabilize markets and enhance growth after the financial crisis of 2008, but without giving much thought to the long-term consequences. It was a response, Raghuram Rajan argues, that set a dangerous precedent: the more centrals bank did, the more they were expected to do, and the more they ended up doing. *Monetary Policy and Its Unintended Consequences* looks back at what this meant for where we are now.

A former central banker who foresaw the 2008 crisis and wrote a bestselling book about the risks of excessively accommodative monetary policy, Rajan takes a hard look at central bank behavior and its embrace of increasingly aggressive strategies to keep economies afloat. Despite efforts to strengthen markets, the 2020 pandemic showed economies remain as vulnerable as ever to adverse shocks, prompting large-scale interventions that, in the case of COVID-19, led to persistent inflation and market volatility. By examining these undertheorized outcomes, Rajan hopes central banks will recognize the unintended consequences of using all of the instruments available to them, which will encourage them to return to their core mandates of low inflation and financial stability.

Monetary Policy and Its Unintended Consequences is the most thorough account yet of the choices central banks have made to meet the economic challenges of our century and why they must rethink these choices.

Raghuram Rajan is Katherine Dusak Miller Distinguished Service Professor of Finance at the University of Chicago's Booth School. His books include *The Third Pillar: How Markets and the State Leave the Community Behind, Saving Capitalism from the Capitalists*, and *Fault Lines: How Hidden Fractures Still Threaten the World Economy*, which received the *Financial Times*-Goldman Sachs prize for best business book.

economics

November | 5 1/4 x 8, 152 pp.

US $30.00X/$41.00 CAN paperback
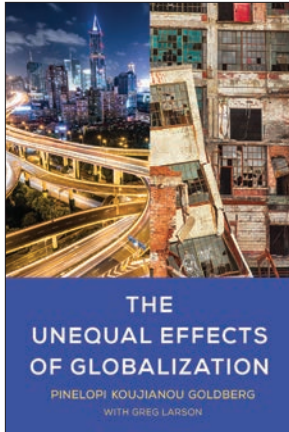978-0-262-54704-8

Karl Brunner Distinguished Lectures Series

The Unequal Effects of Globalization

Pinelopi Koujianou Goldberg

with Greg Larson

From a former Chief Economist of the World Bank, a brief, balanced, and sobering discussion of globalization trends, their drivers, and effects on inequality.

The recent retreat from globalization has been triggered by a perception that increased competition from global trade is not fair and leads to increased inequality within countries. Is this phenomenon a small hiccup in the overall wave of globalization, or are we at the beginning of a new era of deglobalization? Former Chief Economist of the World Bank Group Pinelopi Koujianou Goldberg tells us that the answer depends on the policy choices we make, and in this book *The Unequal Effects of Globalization*, she calls for exploring alternative policy approaches including place-based policies, while sustaining international cooperation.

At this critical moment of shifting attitudes toward globalization, *The Unequal Effects of Globalization* enters the debate while also taking a step back. Goldberg investigates globalization's many dimensions, disruptions, and complex interactions, from the late twentieth century's wave of trade liberalizations to the rise of China, the decline of manufacturing in advanced economies, and the recent effects of trade on global poverty, inequality, labor markets, and firm dynamics. From there, Goldberg explores the significance of the recent backlash against and potential retreat from globalization, and considers the key policy implications of these trends and emerging dynamics.

Pinelopi (Penny) Koujianou Goldberg is the Elihu Professor of Economics and Global Affairs at Yale University. She was Chief Economist of the World Bank Group from 2018 to 2020, President of the Econometric Society in 2021, and Editor-in-Chief of the *American Economic Review* from 2011 to 2017. **Greg Larson** is a writer and consultant based in Washington, DC. He supports organizations, leaders, and academics in the spheres of economics, public policy, and international development. Previously, he served as an economist and senior advisor at the US Treasury Department.

business | economics

August | 5 1/4 x 8, 128 pp. | 27 b&w illus.

US $40.00X/$54.00 CAN cloth
978-0-262-04825-5

Ohlin Lectures series

Demystifying the Academic Research Enterprise

Becoming a Successful Scholar in a Complex and Competitive Environment

Kelvin K. Droegemeier

What next-generation scholars need to know in order to thrive, and how they can actively participate in shaping the academic research enterprise.

The academic research enterprise is highly complex, involving multiple sectors of society and a vast array of approaches. In *Demystifying the Academic Research Enterprise*, Kelvin Droegemeier shows next-generation scholars across all disciplines how to become more productive earlier in their career, as well as how to help shape the academic research enterprise. The topics covered include public perceptions of scholarly work and its use in policy; understanding the big picture of funding and national priorities as well as identifying funding sources; research methods; collecting data and materials; writing grant proposals; publishing results; ethical conduct; bias and peer review; intellectual property and compliance regulations; partnerships and collaboration; diversity, equity, and inclusion; and the future of research.

Droegemeier's two principal goals are to enhance and accelerate scholars' understanding of the academic research process and to democratize that understanding, particularly at institutions that traditionally are underrepresented or lack robust resources. While intended for undergraduate and graduate students, postdoctoral scholars, and early career faculty, *Demystifying the Academic Research Enterprise* is also relevant to mid-career and senior faculty, research administrators, funding organizations, congressional staff, policymakers, and the general public. Droegemeier places scholars in a broader national and international context—not as passive recipients of the existing system but as key actors who actively participate in helping to set priorities, determine policies, drive systemic change, and advance knowledge.

Kelvin K. Droegemeier is Regents' Professor and Roger and Sherry Teigen Presidential Professor, Weathernews Chair Emeritus, University of Oklahoma. From 2019 to 2021, he served as Director of the White House Office of Science and Technology Policy (OSTP) and Science Advisor to the President.

education

December | 6 x 9, 344 pp. | 47 b&w illus.

US $40.00X/$54.00 CAN paperback
978-0-262-54707-9

Academic Star Wars

Excellence Initiatives in Global Perspective

edited by Maria Yudkevich, Philip G. Altbach, and Jamil Salmi

A pioneering collection of case studies on the global phenomenon of academic excellence initiatives and how they shape the performance of research universities.

Academic excellence initiatives (AEIs)—special government-sponsored programs to improve research universities—have provided billions of dollars to top universities and represent perhaps the most significant effort in the past half-century to jumpstart academic research. The contributors to *Academic Star Wars*, superbly edited by Maria Yudkevich, Philip G. Altbach, and Jamil Salmi, analyze AEIs in nine European and Asian countries, including China, Japan, Malaysia, South Korea, Taiwan, Denmark, France, Germany, and Russia, and offer penetrating insights into the successes and problems of these initiatives, as well as into the broader system of higher education itself.

Academic Star Wars provides a comprehensive analysis of AEIs across the globe as it seeks to understand the impact of these programs on national higher ed systems. The contributors explore a host of topics, including how the idea of excellence varies across national systems; the lessons to be drawn from the most successful AEIs; the consequences of AEIs, both intended and unintended, for participating universities; and whether AEIs ensure a significant impact on the global standing of national higher education systems. Finally, the contributors offer policy recommendations for national decision-makers and university leaders, taking into account the variety of initial conditions of national higher education systems and the differences in AEI design, scope, and funding.

Maria Yudkevich is a professor and head of the Center for Institutional Studies at HSE University, Moscow. She is a coauthor of *Higher Education in Russia*. **Philip G. Altbach** is Research Professor and Distinguished Fellow of the Center for International Higher Education, Boston College. He is the author of *Global Perspectives on Higher Education* and other books. **Jamil Salmi** is a global tertiary education expert; former World Bank higher education coordinator; Emeritus Professor of Higher Education Policy, Diego Portales University, Chile; and Research Fellow, Center for International Higher Education, Boston College.

education

December | 6 x 9, 280 pp. | 10 b&w illus.
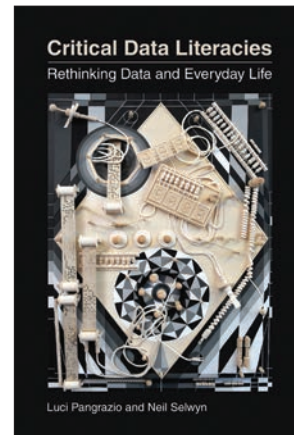
US $45.00X/$60.00 CAN paperback
978-0-262-54685-0

Critical Data Literacies

Rethinking Data and Everyday Life

Luci Pangrazio and Neil Selwyn

A guide to everything you need to understand to navigate a world increasingly governed by data.

Data has become a defining issue of current times. Our everyday lives are shaped by the data that is produced about us (and by us) through digital technologies. In this book, *Critical Data Literacies*, Luci Pangrazio and Neil Selwyn introduce readers to the central concepts, ideas, and arguments required to make sense of life in the data age. The authors challenge the idea that datafication is an inevitable and inescapable condition. Drawing on emerging areas of scholarship such as data justice, data feminism, and other critical data studies approaches, they explore how individuals and communities can empower themselves to engage with data critically and creatively.

Over the course of eight wide-ranging chapters, the book introduces readers to the main components of critical data literacies—from the fundamentals of identifying and understanding data to the complexities of engaging with more combative data tactics. *Critical Data Literacies* explores how the tradition of critical literacies can offer a powerful foundation to address the big concerns of the data age, such as issues of data justice and privacy, algorithmic bias, dataveillance, and disinformation. Bringing together cutting-edge thinking and discussion from across education, sociology, psychology, and media and communication studies, *Critical Data Literacies* develops a powerful argument for collectively rethinking the role that data plays in our everyday lives and re-establishing agency, free will, and the democratic public sphere.

Luci Pangrazio is Senior Lecturer in Language and Literacy Education at Deakin University. Her recent books are *Learning to Live with Datafcation* (with Julian Sefton-Green) and *Young People's Literacies in the Digital Age*. **Neil Selwyn** is Distinguished Professor at Monash University, Melbourne. His books are *Facial Recognition* (with Mark Andrejevic), *Should Robots Replace Teachers?*, and the third edition of *Education and Technology: Key Issues and Debates*.

education

November | 6 x 9, 224 pp.

US $35.00X/$48.00 CAN paperback
978-0-262-54682-9

Recycling Class

The Contradictions of Inclusion in Urban Sustainability

Manisha Anantharaman

An ethnographic and community-engaged study of the class, caste, and gender politics of environmental mobilizations around Bengaluru, India's discards.

In *Recycling Class*, Manisha Anantharaman examines the ideas, flows, and relationships around unmanaged discards in Bengaluru, India, itself a massive environmental problem of planetary proportions, to help us understand what types of coalitions deliver social justice within sustainability initiatives. *Recycling Class* links middle-class, sustainable consumption with the environmental labor of the working poor to offer a relational analysis of urban sustainability politics and practice. Through ethnographic, community-based research, Anantharaman shows how diverse social groups adopt, contest, and modify neoliberal sustainability's emphasis on market-based solutions, behavior change, and the aesthetic conflation of "clean" with "green."

Tracing garbage politics in Bengaluru for over a decade, Anantharaman argues that middle class "communal sustainability" efforts create new avenues for waste picker organizations to make claims for infrastructural inclusion. Coproduced "DIY infrastructures" serve as sites of citizenship and political negotiation, challenging the technocratic and growth-based logics of dominant sustainability policies. Yet, these configurations reproduce class, caste, and gender-based divisions of labor, demonstrating that inclusion without social reform can reproduce unjust distributions of risk and responsibility. Revealing the "win-win" fallacy of sustainability and foregrounding the agency of communities excluded from environmental policy, *Recycling Class* will appeal to scholars and activists alike who want to create a future with more transformative sustainability.

Manisha Anantharaman is Associate Professor of Justice Community and Leadership at Saint Mary's College of California and the coeditor of *The Circular Economy and the Global South*.

political science | environment

December | 6 x 9, 272 pp. | 10 b&w illus.
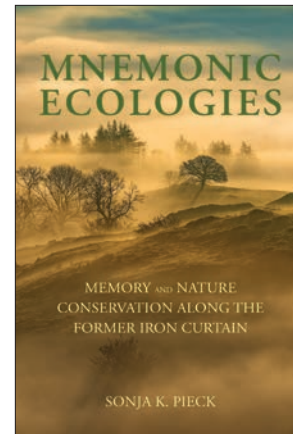
US $40.00X/$54.00 CAN paperback
978-0-262-54697-3

Mnemonic Ecologies

Memory and Nature Conservation along the Former Iron Curtain

Sonja K. Pieck

An exploration of the Green Belt conservation project between the former East and West Germanies and its relationship to emergent ecosystems, trauma, and memorialization.

The first book-length scholarly treatment of Germany's largest conservation project, the Green Belt, *Mnemonic Ecologies* by Sonja Pieck presents a new interdisciplinary approach: that effective restoration and conservation of wounded land must merge ecology with memory. Since the Cold War's end in 1989, German conservationists have transformed the once militarized border between East and West Germany into an extensive protected area. Yet as forests, meadows, and wetlands replace fences, minefields, and guard towers, ecological recovery must reckon with the pain of the borderlands' brutal past. The lessons gained by conservationists here, Pieck argues, have profound practical and ethical implications far beyond Germany.

Can conservation help heal both ecological and societal wounds? How might conservation honor difficult socioecological pasts? Deeply researched and evocatively written, this beautiful, interdisciplinary investigation into the legacy of war and nature's resurgence blends environmental history, ethics, geography, and politics with ecology and memory studies. Amid our rampant biodiversity crisis, *Mnemonic Ecologies* shows why conservation must include humanized landscapes in its purview, thus helping to craft a new conservation ethos that is collaborative, empathetic, and more sensitive to the connections between humans and the places they inhabit.

Sonja K. Pieck is a human geographer and Professor of Environmental Studies at Bates College. Her interdisciplinary research explores environmental politics, cultures, and governance in Europe and South America.

nature

August | 6 x 9, 280 pp. | 16 b&w illus.
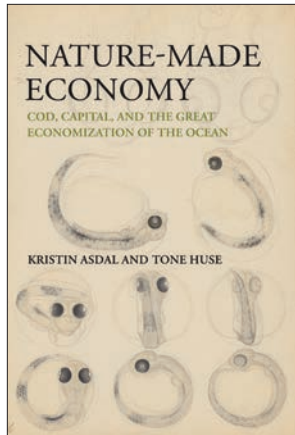
US $45.00X/$60.00 CAN paperback
978-0-262-54616-4

Nature-Made Economy

Cod, Capital, and the Great Economization of the Ocean

Kristin Asdal and Tone Huse

An exploration of the economization of the ocean through the small modifications that enable great transformations of nature.

The ocean is the site of an ongoing transformation that is aimed at creating new economic opportunities and prosperity. In *Nature-Made Economy*, Kristin Asdal and Tone Huse explore how the ocean has been harnessed to become a space of capital investment and innovation, and how living nature is wrested into the economy even as nature, in turn, resists, adapts to, or changes the economy. The authors' innovative methodological and conceptual approaches examine the economy by focusing on surprising and numerous "little tools"—such as maps and policy documents, quality patrols, and dietary requirements for the enhancement of species' biological propensities—that value, direct, reorder, accomplish, and sometimes fail to serve our ends, but also add up to great change.

Throughout *Nature-Made Economy*, Asdal and Huse follow one species, the Atlantic cod, and explore how it is subjected to different versions of economization. Taking this species as a point of departure, they then provide novel analyses of the innovation economy, the architecture of markets, the settling of prices, and more, revealing how the ocean is rendered a space of intense economic exploitation. Through their analysis, the authors develop a distinct theoretical approach and conceptual vocabulary for studying nature–economy relations.

Nature-Made Economy is a significant contribution to the broad field of STS and social studies of markets, as well as to studies of the Anthropocene, the environment, and human–animal relations.

Kristin Asdal is Professor of STS at the University of Oslo. She is the coauthor of *Doing Document Analysis: A Practice-Oriented Method* and coeditor of *Humans, Animals and Biopolitics: The More-Than-Human Condition*. **Tone Huse** is Associate Professor of Archaeology, History, Religious Studies and Theology at the Arctic University of Norway. She is the author of *Everyday Life in the Gentrifying City: On Displacement, Ethnic Privileging and the Right to Stay Put*.
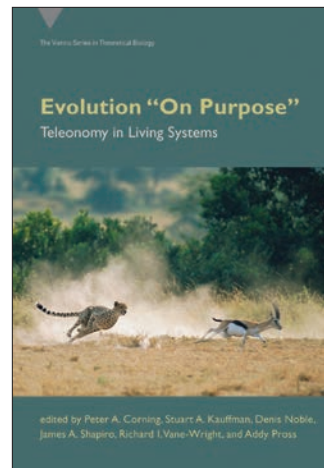
Evolution "On Purpose"

Teleonomy in Living Systems

edited by Peter A. Corning, Stuart A Kauffman, Denis Noble, James A. Shapiro, Richard I. Vane-Wright, and Addy Pross

A unique exploration of teleonomy—also known as "evolved purposiveness"—as a major influence in evolution by a broad range of specialists in biology and the philosophy of science.

The evolved purposiveness of living systems, termed "teleonomy" by chronobiologist Colin Pittendrigh, has been both a major outcome and causal factor in the history of life on Earth. Many theorists have appreciated this over the years, going back to Lamarck and even Darwin in the nineteenth century. In the mid-twentieth century, however, the complex, dynamic process of evolution was simplified into the one-way, bottom-up, single gene-centered paradigm widely known as the modern synthesis. In *Evolution "On Purpose,"* edited by Peter Corning, Stuart Kauffman, Denis Noble, James Shapiro, Richard Vane-Wright, and Addy Pross, some twenty theorists attempt to modify this reductive approach by exploring in depth the different ways in which living systems have themselves shaped the course of evolution.

Evolution "On Purpose" puts forward a more inclusive theoretical synthesis that goes far beyond the underlying principles and assumptions of the modern synthesis to accommodate work since the 1950s in molecular genetics, developmental biology, epigenetic inheritance, genomics, multilevel selection, niche construction, physiology, behavior, biosemiotics, chemical reaction theory, and other fields.

Peter A. Corning is Director of the Institute for the Study of Complex Systems and Professor of Human Biology at Stanford University.
Stuart A. Kauffman has published over 350 articles and 6 books: *The Origins of Order, At Home in the Universe, Investigations, Reinventing the Sacred, Humanity in a Creative Universe,* and *A World beyond Physics*.
Denis Noble was Professor of Cardiovascular Physiology at the University of Oxford until 2004. He is author of *The Music of Life* and *Dance to the Tune of Life*. He is a Fellow of the Royal Society. **James A. Shapiro** is Professor of Microbiology in the Department of Biochemistry and Molecular Biology at the University of Chicago. **Richard I. Vane-Wright** is an entomologist associated with the Natural History Museum (London) for over 60 years.
Addy Pross is Professor of Chemistry (Emeritus) at Ben Gurion University of the Negev. His pioneering book *What Is Life? How Chemistry Becomes Biology* has been published in close to a dozen languages.
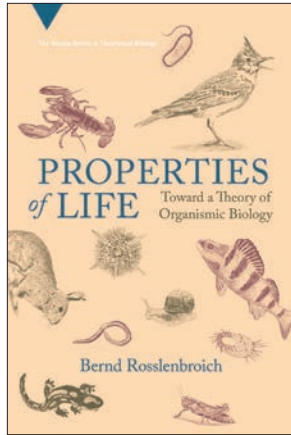
Properties of Life

Toward a Theory of Organismic Biology

Bernd Rosslenbroich

A coherent and comprehensive theory of life that synthesizes the specific properties of living organisms.

Despite continued advances, science has until now struggled to describe the specific properties that define a living being. By synthesizing several aspects of organismic biology and contemporary science, *Properties of Life* by Bernd Rosslenbroich generates a coherent concept of the singular quality of being alive—a concept that provides a crucial foundation for scientists, farmers, and medical practitioners and helps explain how we all interact with the world around us and within ourselves.

Is an organism an aggregate of parts or an integrated system with agency? Is it a passive stimulus-response machine or a being equipped with subjectivity and consciousness? Rosslenbroich argues that the way people in different fields understand life determines their assumptions about organic function and behavior. In medicine, this extends to the human organism, which influences prevention, diagnosis, and treatment. Drawing attention to a long-standing but underappreciated line of thought in organismic biology, Rosslenbroich's original idea emphasizes the autonomy of living processes, their network characteristics, and their self-determined organization in time and structure.

A timely and revelatory book, *Properties of Life* formulates an integrated, unified theory that remains flexible enough to accommodate future developments and resilient enough to withstand the challenges of different theoretical and disciplinary backgrounds.

Bernd Rosslenbroich is Head of the Institute of Evolutionary Biology and Morphology at Witten/Herdecke University, Germany. Researching patterns and processes in macroevolution, organismic, and systems biology and philosophy of biology and medicine, he is the author of *On the Origin of Autonomy: A New Look at the Major Transitions in Evolution*.

biology

September | 6 x 9, 326 pp. | 40 b&w illus.

US $60.00X/$79.00 CAN paperback
978-0-262-54620-1

Vienna Series in Theoretical Biology

Playful Wearables

Understanding the Design Space of Wearables for Games and Related Experiences

Oğuz Buruk, Ella Dagan, Katherine Isbister, Elena Márquez Segura, and Theresa Jean Tanenbaum

An expert introduction to the world of "playful wearables" and their design, with a wide range of engaging examples, case studies, and exercises.

This pioneering introduction to the world of wearable technology takes readers beyond the practical realm (think Fitbits, Apple watches, and smart glasses) to consider another important side of the technology—the playful. *Playful Wearables* offers an engaging account of what "playful wearables" are, why they matter, how they work, how they're made, and what their future might hold. The book's authors—Oğuz Buruk, Ella Dagan, Katherine Isbister, Elena Márquez Segura, and Theresa Jean Tanenbaum—draw on decades of experience in design, development, and research to offer real-world examples, exercises, and implications, showing how this kind of wearable tech can introduce an invaluable element of play into our everyday lives.

As wearable technology emerges in the ecology of costume and fashion, the authors consider its intimate connection to identity and culture. And they look at the ways in which playful wearables, when smoothly integrated into everyday social experiences, support social interaction. The book then moves on to the mechanics of playful wearables—from design strategies and frameworks to specific methods and game design patterns— the building blocks for great playful, wearable designs.

Oğuz Buruk is Assistant Professor of Gameful Experience, Faculty of Information Technology and Communication Sciences, Tampere University. **Ella Dagan** is an artist, designer, and doctoral candidate at the Social Emotional Technology Lab of University of California Santa Cruz. **Katherine Isbister** is Professor of Computational Media and Jack Baskin Endowed Chair in Engineering, University of California Santa Cruz, and author of *How Games Move Us* (MIT Press). **Elena Maìrquez Segura** is a Beatriz Galindo Distinguished Researcher and Assistant Professor in the Computer Science and Engineering Department at University Carlos III of Madrid. **Theresa Jean Tanenbaum** is an independent scholar, designer, artist, and interactive storyteller.

game studies

December | 7 x 9, 248 pp. | 50 b&w illus.

US $35.00X/$48.00 CAN paperback
978-0-262-54691-1

Mainstreaming and Game Journalism

David B. Nieborg and Maxwell Foxman

Why games are still niche and not mainstream, and how journalism can help them gain cultural credibility.

Mainstreaming and Game Journalism addresses both the history and current practice of game journalism, along with the roles writers and industry play in conveying that the medium is a "mainstream" form of entertainment. Through interviews with reporters, David Nieborg and Maxwell Foxman retrace how the game industry and journalists started a subcultural spiral in the 1980s that continues to this day. Digital play became increasingly exclusionary by appealing to niche audiences, relying on hardcore fans and favoring the male gamer stereotype. At the same time, this culture pushed journalists to the margins, leaving them toiling to find freelance gigs and deeply ambivalent about their profession.

Mainstreaming and Game Journalism also examines the bumpy process of what we think of as "mainstreaming." The authors argue that it encompasses three overlapping factors. First, for games to become mainstream, they need to become more ubiquitous through broader media coverage. Second, an increase in ludic literacy, or how-to play games, determines whether that greater visibility translates into accessibility. Third, the mainstreaming of games must gain cultural legitimacy. The fact that games are more visible does little if only a few people take them seriously or deem them worthy of attention. Ultimately, *Mainstreaming and Game Journalism* provocatively questions whether games ever will—or even should—gain widespread cultural acceptance.

David B. Nieborg is Associate Professor of Media Studies at the University of Toronto. He is the coauthor of *Platforms and Cultural Production* with Thomas Poell and Brooke Erin Duffy. **Maxwell Foxman** is Assistant Professor of Media Studies and Game Studies at the School of Journalism and Communication at the University of Oregon.

game studies | media studies

August | 5 1/4 x 8, 224 pp. | 5 b&w illus.

US $30.00X/$41.00 CAN paperback
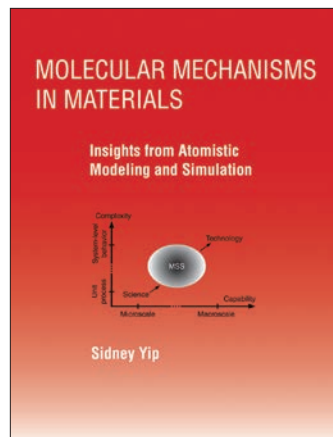978-0-262-54628-7

Playful Thinking series

Molecular Mechanisms in Materials

Insights from Atomistic Modeling and Simulation

Sidney Yip

A critical perspective of the methods used to understand the atomic-scale mechanisms that govern the macroscopic behavior of materials.

Machine-learning-based computation in materials innovation, performance optimization, and sustainability offers exciting opportunities at the mesoscale research frontier. *Molecular Mechanisms in Materials* presents research findings and insights about material behavior at the molecular level and its impact on macroscopic properties. The book's fifteen essays represent author Sidney Yip's work in atomistic modeling and materials simulation over more than five decades. The phenomena are grouped into five basic types: fluctuations in simple fluids, crystal melting, plasticity and fracture, glassy relaxations, and amorphous rheology, all focused on molecular mechanisms in base materials.

The organizing principle of *Molecular Mechanisms in Materials* is multiscale modeling and simulation, where conceptual models and simulation techniques are linked across the micro-to-macro length and time scales to control the outcome of specific materials processes. Each essay addresses a specific standalone topic of materials phenomena while also recognizing the larger context of materials science and technology. Individual case studies serve both as standalone essays and companion pieces to each other. Indeed, the global transformation of science and technology is well underway: in his epilogue, Yip discusses the potential of artificial intelligence and machine learning to enhance future materials for societal benefits in the face of global challenges such as climate change, energy sustainability, infrastructure renewal, and nuclear arms control.

Sidney Yip is Professor Emeritus of Nuclear Science and Engineering and Materials Science and Engineering at the Massachusetts Institute of Technology.

science | technology

October | 7 x 9, 288 pp. | 90 color illus.
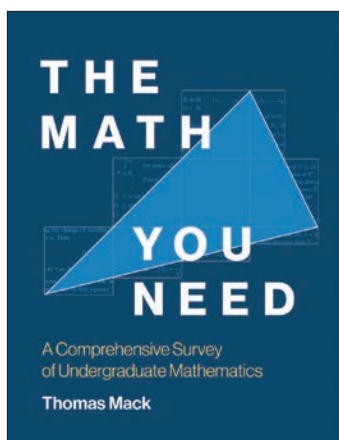
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The Math You Need

A Comprehensive Survey of Undergraduate Mathematics

Thomas Mack

A comprehensive survey of undergraduate mathematics, compressing four years of study into one robust overview.

In *The Math You Need*, Thomas Mack provides a singular, comprehensive survey of undergraduate mathematics, compressing four years of math curricula into one volume. Without sacrificing rigor, this book provides a go-to resource for the essentials that any academic or professional needs. Each chapter is followed by numerous exercises to provide the reader an opportunity to practice what they learned. *The Math You Need* is distinguished in its use of the Bourbaki style—the gold standard for concision and an approach that mathematicians will find of particular interest. As ambitious as it is compact, this text embraces mathematical abstraction throughout, avoiding ad hoc computations in favor of general results.

Covering eight areas—group theory, commutative algebra, linear algebra, topology, real analysis, complex analysis, number theory, and probability and statistics—this thorough and highly effective overview of the undergraduate curriculum will prove to be invaluable to students and instructors alike.

Thomas Mack is a mathematician, who earned his PhD in the field of combinatorial group theory and hyperbolic groups from the California Institute of Technology. He has worked for more than fifteen years as a researcher in the areas of defense, robotics, and finance.

mathematics

October | 7 x 9, 488 pp. | 10 b&w illus.

US $55.00X/$73.00 CAN paperback
978-0-262-54632-4

Real Life in Real Time

Live Streaming Culture

edited by Johanna Brewer, Bo Ruberg, Amanda L. L. Cullen, and Christopher J. Persaud

The cultural ramifications of online live streaming, including its effects on identity and power in digital spaces.

Some consider live streaming—the broadcasting of video and/or audio footage live online—simply an internet fad or source of entertainment, yet it is at the center of the digital mediation of our lives. In this edited volume, Johanna Brewer, Bo Ruberg, Amanda Cullen, and Christopher Persaud present a broad range of essays that explore the cultural implications of live streaming, paying special attention to how it is shifting notions of identity and power in digital spaces. The diverse set of international authors included represent a variety of perspectives, from digital media studies to queer studies, from human-computer interaction to anthropology, and more.

While important foundational work has been carried out by game studies scholars, many other elements of streaming practices remain to be explored. To deepen engagement with diversity and social justice, the editors have included a variety of voices on such topics as access, gender, sexuality, race, disability, harassment, activism, and the cultural implications of design aesthetics. Live streaming affects a wide array of behaviors, norms, and patterns of communication. But above all, it lets participants observe and engage with real life as it unfolds in real time. Ultimately, these essays challenge us to look at both the possibilities for harm and the potential for radical change that live streaming presents.

Johanna Brewer is Assistant Professor of Computer Science at Smith College and the Director of Research at AnyKey. **Bo Ruberg** is Associate Professor, Department of Film and Media Studies, University of California, Irvine. They are the author of *Sex Dolls at Sea: Imagined Histories of Sexual Technologies* (MIT Press). **Amanda L. L. Cullen** is User Researcher at Blizzard Entertainment. She received her PhD in Informatics at the University of California, Irvine. **Christopher J. Persaud** is a PhD candidate at the Annenberg School for Communication and Journalism, University of Southern California.

media studies

August | 6 x 9, 352 pp. | 28 b&w illus.

US $40.00X/$54.00 CAN paperback
978-0-262-54565-5

Distant Viewing

Computational Exploration of Digital Images

Taylor Arnold and Lauren Tilton

A new theory and methodology for the application of computer vision methods to the computational analysis of collected, digitized visual materials, called "distant viewing."

Distant Viewing presents a new theory and methodology for the computational analysis of digital images, offering a lively, constructive critique of computer vision that you can actually use. What does it mean to say that computer vision "understands" visual inputs? Annotations never capture a whole image. The way digital images convey information requires what researchers Taylor Arnold and Lauren Tilton call "distant viewing"—a play off the well-known term "distant reading" from computational literary analysis.

Recognizing computer vision's limitations, Arnold and Tilton's spirited examination makes the technical exciting by applying distant viewing to the sitcoms *Bewitched* and *I Dream of Jeannie*, movie posters and other popular forms of advertising, and Dorothea Lange's photography. In the tradition of visual culture studies and computer vision, *Distant Viewing*'s interdisciplinary perspective encompasses film and media studies, visual semiotics, and the sciences to create a playful, accessible guide for an international audience working in digital humanities, data science, media studies, and visual culture studies.

Taylor Arnold is Associate Professor at the University of Richmond in the interdisciplinary programs in Data Science and Linguistics. A recipient of grants from the NEH and ACLS, Arnold's research focuses on the interdisciplinary study of how messages are communicated through texts and visual media. He has published three books, most recently *Layered Lives*. **Lauren Tilton** is Associate Professor of Digital Humanities in the Department of Rhetoric and Communication Studies at the University of Richmond. Her research combines American Studies and digital humanities to the study of modern visual culture. She is the author of four books, including *Layered Lives*. Tilton and Arnold, run the Distant Viewing lab at the University of Richmond.

media studies | information science

October | 6 x 9, 264 pp. | 26 b&w illus.
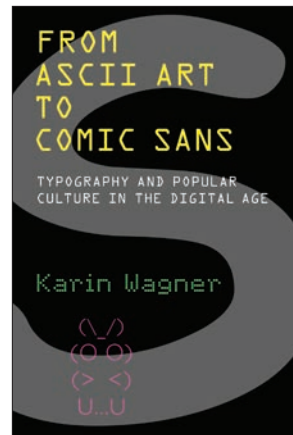
US $40.00X/$54.00 CAN paperback
978-0-262-54613-3

From ASCII Art to Comic Sans

Typography and Popular Culture in the Digital Age

Karin Wagner

A fresh and provocative take on typography, computing, and popular culture, viewed through four idiosyncratic typographical phenomena from the digital age.

From ASCII Art to Comic Sans offers an original vision of the history of typography and computing in the digital age, viewed through the lens of offbeat typography. We often regard text as pure information and typography as a transparent art form without meaning of its own. In this book, however, Karin Wagner offers a fresh perspective that shows how text is always an image that conveys meaning, and typography, far from being meaningless, has in fact shaped modern visual and material culture in significant ways.

By juxtaposing four odd typographical phenomena— the pedantic practice of ASCII art, the curious-looking machine-readable typefaces, the blurry letters of dot matrix printers, and the much-maligned font Comic Sans—Wagner paints a vivid picture of how functional technologies influence popular culture when used in ways their original creators never intended.

Design practitioners, as well as fans of media, graphic design, type history, and computer technology, will enjoy this breezily sophisticated perspective on visual and digital culture. Spanning the material and visual aspects of typography from the 1960s to the present, *From ASCII Art to Comic Sans* is a unique contribution to the study of popular and material culture that fills a gap in the history of typography and computing.

Karin Wagner is Professor in Art History and Visual Studies at the Department of Cultural Sciences at the University of Gothenburg, Sweden. Researching photography, digital culture, design, and visual communication, she has published articles in *Journal of Aesthetics & Culture*, *Visual Communication*, *Museum & Society*, and *Archival Science*.

design

September | 6 x 9, 256 pp. | 83 color illus.
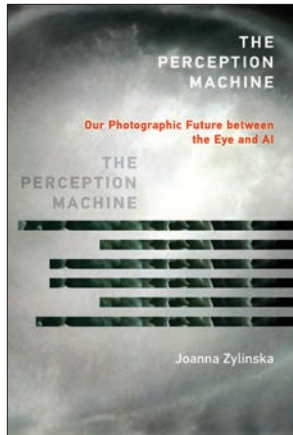
US $40.00X/$54.00 CAN paperback
978-0-262-54614-0

The Perception Machine

Our Photographic Future between the Eye and AI

Joanna Zylinska

A provocative investigation of the future of photography and human perception in the age of AI.

We are constantly photographing and being photographed while feeding machine learning databases with our data, which in turn is used to generate new images. Analyzing the transformation of photography by computation—and the transformation of human perception by algorithmically driven images, from CGI to AI—*The Perception Machine* investigates what it means for us to live surrounded by image flows and machine eyes. In an astute and engaging argument, Joanna Zylinska brings together media theory and neuroscience in a Vilém Flusser–Paul Virilio remix. Her "perception machine" names a technical universe of images and their infrastructures. But it also refers to a sociopolitical condition resulting from today's automation of vision, imaging—and imagination.

Written by a theorist-practitioner, the book incorporates Zylinska's own art projects, some of which have been co-created with AI. The photographs, collages, films, and installations available as part of the book (and its companion website) provide a different mode of thinking about our technological futures, at a local as well as a planetary level. Offering provocative concepts such as eco-eco-punk, AUTO-FOTO-KINO, planetary micro-vision, loser images, and sensography, the book outlines an existential philosophy of messy media for a time when our practices of imaging and self-imaging are being radically redesigned. Importantly, it also offers a new vision of our future.

Joanna Zylinska is Professor of Media Philosophy + Critical Digital Practice at King's College London. The author of *Nonhuman Photography* (MIT Press) and many other books on art, technology, and ethics, she is also an artist and curator.

The Sensorium of the Drone and Communities

Kathrin Maurer

A comprehensive overview of how civilian drones sense the world and how they build the aesthetic imaginaries of our communities.

Drone technology has garnered critical attention across many fields, from engineering to the humanities. While the first wave of drone scholarship was key in initiating the debate on drones, it also privileged the idea of the "scopic regime"—a militarized regime of hypervisuality—in its analyses of the connection between vision and power. *The Sensorium of the Drone and Communities* broadens the drone's spectrum of perception by acknowledging its creative, life-affirming possibility with the notion of the sensorium. The sensorium of the drone is a multimedia, synesthetic sensing assemblage in which the human agent is enmeshed with the drone. Drone sensoria can sense in many more ways than the scopic regime—with sound, touch, smell, temperature, and movement.

In *The Sensorium of the Drone and Communities*, Kathrin Maurer shows how drone sensoria can change our understanding of human communities by constructing imaginaries of social communities based on decentralized and fluid sensing processes. Maurer takes an aesthetic approach to technology, working with two understandings of aesthetics. One understanding refers to aesthetics as a way of experiencing, and it explores how the drone-human assemblage perceives the world. The other refers to aesthetic mimetic representation, and focuses on how aesthetic drone imaginaries in literature, popular culture, visual arts, and films negotiate the sensorial technology of the drone.

Bringing together key ideas in technology studies, studies of aerial views, visual and aesthetic studies, posthuman sensing, machine–human interaction, and communities, *The Sensorium of the Drone and Communities* sheds a welcome and necessary light on this technology's creative potential as well as its dangers and risks.

Kathrin Maurer is Professor of Humanities and Technology at the University of Southern Denmark (SDU). She is the leader of the Center for Culture and Technology and the research cluster "Drone Imaginaries and Communities," funded by the Independent Research Fund Denmark.

Exploring and Exploiting Genetic Risk for Psychiatric Disorders

edited Joshua A. Gordon and Elisabeth B. Binder

An edited volume that looks at the state of psychiatric genetics and how to chart a path forward.

In this edited collection, experts from psychiatric and statistical genetics, neurobiology, and clinical psychiatry investigate whether and how to pursue the discovery of additional genetic risk factors for mental illnesses. Using the existing knowledge and frameworks of genetic risk factors, they look at how a better understanding of the biology that underlies mental illnesses can improve and enhance the care that patients receive.
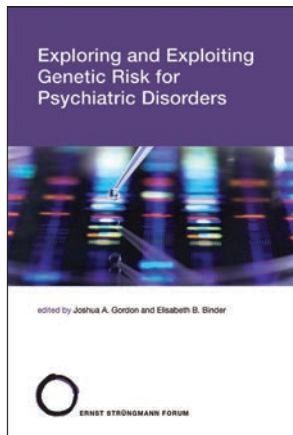
Joshua A. Gordon is Director of the National Institute of Mental Health (NIMH) and Chief of the Integrative Neuroscience Section at the National Institute of Neurologic Disorders and Stroke (NINDS). **Elisabeth B. Binder** is a director and scientific member at the Max Planck Institute of Psychiatry.

psychology | medicine

October | 6 x 9, 376 pp. | 15 color illus., 4 b&w illus., 3 halftones

US $70.00X / $92.00 CAN paperback
978-0-262-54738-3

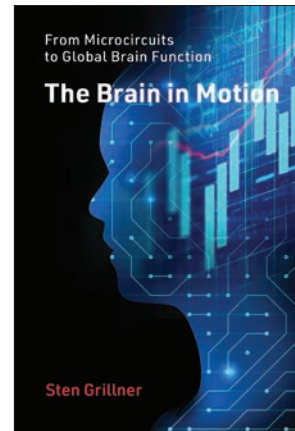Strüngmann Forum Reports

The Brain in Motion

From Microcircuits to Global Brain Function

Sten Grillner

An evolutionary perspective—from lampreys to humans—on how the forebrain coordinates movement while the networks in the brainstem and spinal cord handle the execution.

All living creatures interact with their environment: even the most basic have a set of innate motor circuits they rely on to feed, locomote, fight, and flee. In *The Brain in Motion*, Sten Grillner describes the evolution of the motor repertoire of vertebrates, from protovertebrates to primates. With breadth and depth, Grillner explores how the brain uses the different microcircuits in the brainstem and spinal cord, coordinating them through commands from the forebrain. He also considers the normal function of the brain as a platform for understanding clinical conditions such as stroke, Parkinson's and Huntington's diseases, and spinal cord injury.

Grillner also explains in *The Brain in Motion* how the remarkable finding that the lamprey forebrain has all the components of the mammalian one has radically changed scientists' views on the evolutionary origin of the vertebrate forebrain. We now know that the basic organization evolved 560 rather than 300 million years ago, as was previously thought. The forebrain, says Grillner, is like an orchestra conductor, while the microcircuits, with their reaching, grasping, posture, locomotion, and numerous other patterns of behavior, correspond to the members of the orchestra. The conductor determines when each will be called into action.

Providing an elegantly integrated perspective, *The Brain in Motion* is essential reading for anybody that works professionally with movement control and function and dysfunction, whether in basic research, clinically, or in the training of motor skills.

Sten Grillner is Distinguished Professor at the Karolinska Institute in Sweden and previous head of the Nobel Institute for Neurophysiology.

neuroscience

October | 6 x 9, 286 pp. | 73 color illus.

US $60.00X / $79.00 CAN paperback
978-0-262-04820-0

Person, Thing, Robot

A Moral and Legal Ontology for the 21st Century and Beyond

David J. Gunkel

Why robots defy our existing moral and legal categories and how to revolutionize the way we think about them.

Robots are a curious sort of thing. On the one hand, they are technological artifacts—and thus, things. On the other hand, they seem to have social presence, because they talk and interact with us, and simulate the capabilities commonly associated with personhood. In *Person, Thing, Robot*, David Gunkel sets out to answer the vexing question: What exactly is a robot? Rather than try to fit robots into the existing categories by way of arguing for either their reification or personification, however, Gunkel argues for a revolutionary reformulation of the entire system, developing a new moral and legal ontology for the twenty-first century and beyond.

In this book, Gunkel investigates how and why efforts to use existing categories to classify robots fail, argues that "robot" designates an irreducible anomaly in the existing ontology, and formulates an alternative that restructures the ontological order in both moral philosophy and law. *Person, Thing, Robot* not only addresses the issues that are relevant to students, teachers, and researchers working in the fields of moral philosophy, philosophy of technology, science and technology studies (STS), and AI/robot law and policy, but it also speaks to controversies that are important to AI researchers, robotics engineers, and computer scientists concerned with the social consequences of their work.

David J. Gunkel is Presidential Research, Scholarship, and Artistry Professor in the Department of Communication at Northern Illinois University. He is the author of *Robot Rights*, *Of Remixology: Ethics and Aesthetics after Remix*, and *The Machine Question: Critical Perspectives on AI, Robots, and Ethics* (all MIT Press).

philosophy | robotics

September | 6 x 9, 256 pp. | 9 b&w illus.
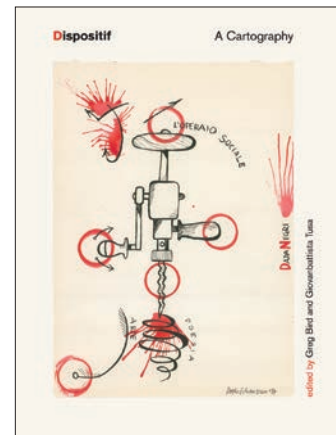
US $45.00X/$60.00 CAN paperback
978-0-262-54615-7

Dispositif

A Cartography

edited by Greg Bird and Giovanbattista Tusa

A groundbreaking anthology that places dispositifs ("apparatuses") at the center of contemporary thought.

Dispositif is one of the most prevalent yet elusive terms in contemporary thought. This comprehensive anthology brings together formative, germinal, and contemporary texts and visual applications to illuminate how central dispositifs are to contemporary theory. Greg Bird and Giovanbattista Tusa's selection and placement of critical texts invite readers to explore common themes and genealogies, different interpretations and readings, and their diverse deployments across multiple disciplines and genres by such figures as Karl Marx, Franz Kafka, Judith Butler, Martin Heidegger, Gilbert Simondon, Michel Foucault, Edward Said, Jasbir Puar, Donna Haraway, Giorgio Agamben, Jacques Derrida, Tiqqun, Claire Fontaine, and many others.

Dispositif is a true toolbox for the development of technological ecology thinking that accounts for situated knowledge. This collection provides coordinates for reorienting oneself in a permanently changing world, offering possible roadmaps for navigating these profoundly uncertain times. More than just a compilation of interventions on the dispositif, this volume acts as a guide for understanding the complex interaction between technology, philosophy, and the languages of the arts and media.

Greg Bird is Associate Professor at Wilfrid Laurier University, Canada. He is a contemporary social and political theorist. His first book, *Containing Community*, won the 2017 Symposium Book Award (Canadian Society for Continental Philosophy). **Giovanbattista Tusa** is a philosopher and video artist based at the Nova University of Lisbon in Portugal, where he coordinates the research program X-CENTRIC FUTURES. He is a coauthor, with Alain Badiou, of *The End*.

philosophy | literary criticism

December | 7 x 9, 528 pp. | 5 b&w illus.

US $50.00X/$66.00 CAN paperback
978-0-262-54433-7

May We Make the World?

Gene Drives, Malaria, and the Future of Nature

Laurie Zoloth

An in-depth look at genetic alteration in the natural world and the oppositions to it, seen through the case study of a gene drive for malaria.

May We Make the World? is an engaging reflection on the history, nature, goal, and meaning of using a new technological idea—CRISPR-based genetic engineering—to alter the genome of the mosquito that carries malaria. This technology, called a "gene drive," can alter the sex ratio in Anopheles gambiae mosquitoes, the key vector for the deadliest form of malaria, falciparum. Falciparum kills 400,000 people a year, and among those, largely the poorest children in the world. In her sobering examination of the issue, Laurie Zoloth considers the leading ethical arguments for and against gene drives, explores the regulatory efforts that have emerged long in advance of the science, and considers the philosophical questions raised by the struggle to eliminate malaria.

The development of a gene drive for malaria will have far-reaching implications, for it represents the first use of genetic engineering of the natural world and the first creation of a genetic variant intended to spread in the African wild, beyond human control. Drawing on two decades of work, Zoloth brilliantly argues that we can understand the complex moral issues at stake only by carefully reflecting on the science, the nature of the local and global discourse about genetic engineering, and the long history of malaria, which—as it transformed from a worldwide disease to a tropical one—reshaped the world as we know it.

Laurie Zoloth is Margaret E. Burton Professor of Religion and Ethics at the University of Chicago. She has been president of both the American Society for Bioethics and Humanities and the American Academy of Religion and was the founding chair of the HHMI Bioethics Advisory Committee. She is the author or coeditor of nine books on bioethics, the humanities, and emerging science, including *The Human Embryonic Stem Cell Debate* (MIT Press).

bioethics | public health

December | 6 x 9, 392 pp.

US $55.00X/$73.00 CAN paperback
978-0-262-54698-0

Basic Bioethics series

Winds of Doctrine

Studies in Contemporary Opinion
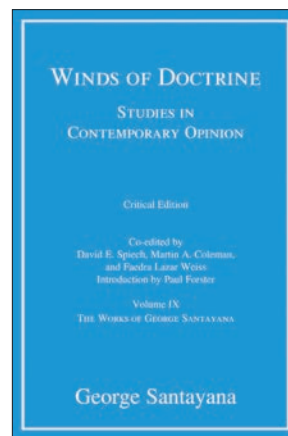
critical edition

Volume 9

George Santayana, David E. Spiech, Martin A. Coleman, and Faedra Lazar Weiss

introduction by Paul Forster

A critical edition of a classic work by the renowned philosopher George Santayana evaluating key movements in American intellectual history.

Winds of Doctrine presents six essays by the internationally recognized critic and philosopher George Santayana on modern philosophy and culture. The essays, edited by David Spiech, Martin Coleman, and Faedra Lazar Weiss, and introduced by Paul Forster, address the broad sweep of intellectual trends—or, as the title suggests, the ever-changing winds of thought—of the Spanish-born American thinker's time. The topics range from the secularization of American culture to the rise of religious modernism to the "genteel tradition" in American philosophy, the subject of Santayana's final lecture in America and perhaps his best known essay.

The original *Winds of Doctrine*, published in 1913, was the first book published after Santayana's 1912 departure for Europe. Santayana had felt stifled at Harvard for some time, and his long-contemplated resignation from academia released him from previous obligations and allowed him a new freedom to think and write. Much later, Santayana remarked on the significance of that choice to step away: "In *Winds of Doctrine* and my subsequent books, a reader of my earlier writings may notice a certain change of climate. . . . It was not my technical philosophy that was principally affected, but rather the meaning and status of philosophy for my inner man."

George Santayana (1863–1952) was a philosopher, poet, critic, and novelist. The MIT Press has published *The Letters of George Santayana* in eight books and *The Life of Reason* in five books. **David E. Spiech** has worked in commercial and academic publishing since 1999. Since 2003 he has been on the staff of the Santayana Edition at the Institute for American Thought, helping to produce the critical edition of *The Works of George Santayana*. **Martin A. Coleman** is Associate Professor of Philosophy at IU School of Liberal Arts at IUPUI. He is the editor of *The Essential Santayana* and the director and editor of the *Santayana Edition*, which is publishing *The Works of George Santayana*. **Faedra Lazar Weiss** joined the Santayana Edition as Assistant Editor in August 2018.

philosophy

August | 6 x 9, 448 pp. | 1 b&w illus.

US $75.00X/$99.00 CAN cloth
978-0-262-04867-5

The Works of George Santayana

Innovation and Adaptation in War

Matthew A. Tattar

An analysis of advances in military technology that illustrates the importance of organizational flexibility in both an attacker's innovations and an opponent's adaptations.

How important is military innovation in determining outcomes during armed conflict? In *Innovation and Adaptation in War*, Matthew Tattar questions the conventional wisdom that, to succeed, military organizations must innovate early and often. Because successful methods of warfare are soon widely imitated or countered on the international stage, the advantages of a particular innovation quickly evaporate. Therefore, Tattar argues, large-scale innovations at the cost of organizational flexibility and the ability to adapt to an adversary's innovations may not be the optimal path—not just because force readiness is vital but also because innovation does not provide as long-lasting and decisive an advantage as may have been previously thought.

Although other scholars have analyzed the sources of military innovation, Tattar is the first to focus on the relationship between innovation and specific military outcomes. Looking at several different types of military organizations and many different types of battles, he draws on theoretical works, in-depth historical research, and case studies, and finds that the initial advantages that are generated by innovation disappear far too rapidly in wartime for militaries to depend on them for victory. Furthermore, as Tattar demonstrates, emphasizing innovation in defense planning at the expense of organizational flexibility can have significant negative consequences. The decisive factor in successful adaptation, more often than not, is a well-positioned and flexible organization. Providing both a new framework for studying military innovation and a comprehensive review of the current literature in this field, *Innovation and Adaptation in War* offers crucial policy-making insights into when and under what circumstances militaries should innovate and adapt.

Matthew A. Tattar is Associate Professor in the War Gaming Department at the Center for Naval Warfare Studies, US Naval War College.

political science | military studies

December | 6 x 9 1/4, 288 pp. | 19 b&w illus.

US $35.00X/$47.00 CAN paperback
978-0-262-54485-6

Belfer Center Studies in International Security series

Families on the Edge

Experiences of Homelessness and Care in Rural New England

Elizabeth Carpenter-Song

An intimate account of rural New England families living on the edge of homelessness, as well as the practices and policies of care that fail them.

Families on the Edge is an ethnographic portrait of families in rural and small-town New England who are often undercut by the very systems that are set up to help them. In this book, author and medical anthropologist Elizabeth Carpenter-Song draws on a decade of ethnographic research to chart the struggles of a cohort of families she met in a Vermont family shelter in 2009, as they contend with housing insecurity, mental illness, and substance use. Few other works have attempted to take such a long-term view of how vulnerability to homelessness unfolds over time or to engage so fully with existing scholarship in the fields of anthropology and health services.

Research on homelessness in the United States has been overwhelmingly conducted in urban settings, so much less is known about its trajectory in rural areas and small towns. Carpenter-Song's book identifies how specific aspects of rural New England—including scarce affordable housing stock, extremely limited transportation, and cultural expectations of self-reliance—come together to thwart opportunities for families despite their continual striving to "make it" in this environment. Carpenter-Song shines a light on the many high-stakes consequences that occur when systems of care fail and offers a way forward for clinicians, health researchers, and policymakers seeking practical solutions.

Elizabeth Carpenter-Song is currently Research Associate Professor in the Department of Anthropology at Dartmouth College. Her work has been published in journals ranging from *Ethos* to *Psychiatric Services* to *Journal of Social Distress and the Homeless*.

medical

August | 6 x 9, 192 pp. | 7 figures

US $35.00X/$48.00 CAN paperback
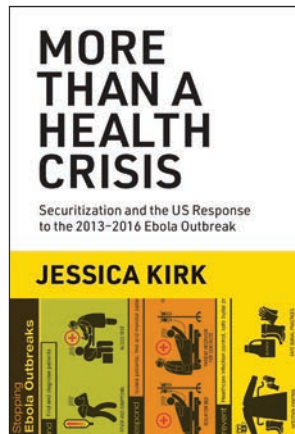978-0-262-54618-8

Culture and Psychiatry series

More Than a Health Crisis

Securitization and the US Response to the 2013–2016 Ebola Outbreak

Jessica Kirk

How the West African Ebola epidemic was transformed from an urgent and distant tragedy into an existential threat to American lives—establishing the dynamics that would later dominate the US response to epidemics such as COVID-19.

In 2014 and 2015, the viral Ebola epidemic in West Africa inspired breathless US media coverage and became the subject of heated public debate over just how to understand the security issue that the outbreak presented. Was it a security concern because of the lives at risk in West Africa? Or because of its threat to regional and global stability? Or was it potentially a threat to the American people? In *More than a Health Crisis*, Jessica Kirk reveals how these varied positions spoke to divisions within the American public, concerning how we think about and respond to uncertainty, competing expertise, and securitization.

Kirk insightfully examines how experts in different fields offered conflicting assessments of the risks posed by Ebola, and then goes on to analyze how the US press undermined the authority of the public health experts who accurately predicted that the virus posed little danger to Americans. Reading the media coverage of the Ebola epidemic as a case study in the biopolitics of fear, Kirk considers how the US response reflected not only anxieties over globalization but also long-held narratives about the "Dark Continent." Finally, Kirk shows how the US and global public response to the Ebola outbreak challenged traditional models of securitization and identifies patterns that have tragically recurred with subsequent epidemics such as COVID-19 and monkeypox.

Jessica Kirk is Research Fellow in the Centre for Governance and Public Policy at Griffith University in Brisbane. She is also Chief Investigator on an ARC Discovery Project on COVID-19 and the politics of expertise, and her work has appeared in such journals as *International Studies Quarterly* and *Global Studies Quarterly*.

medicine | public health

October | 6 x 9, 240 pp. | 1 b&w illus.

US $40.00X/$54.00 CAN paperback
978-0-262-54569-3

A Woman's Right to Know

Pregnancy Testing in Twentieth-Century Britain

Jesse Olszynko-Gryn

The history of pregnancy testing, and how it transformed from an esoteric laboratory tool to a commonplace of everyday life.

Pregnancy testing has never been easier. Waiting on one side or the other of the bathroom door for a "positive" or "negative" result has become a modern ritual and rite of passage. Today, the ubiquitous home pregnancy test is implicated in personal decisions and public debates about all aspects of reproduction, from miscarriage and abortion to the "biological clock" and IVF. Yet, only three generations ago, women typically waited not minutes but months to find out whether they were pregnant. *A Woman's Right to Know* tells, for the first time, the story of pregnancy testing—one of the most significant and least studied technologies of reproduction.

Focusing on Britain from around 1900 to the present day, Jesse Olszynko-Gryn shows how demand shifted from doctors to women, and then goes further to explain the remarkable transformation of pregnancy testing from an obscure laboratory service to an easily accessible (though fraught) tool for every woman. Lastly, the book reflects on resources the past might contain for the present and future of sexual and reproductive health.

Solidly researched and compellingly argued, Olszynko-Gryn demonstrates that the rise of pregnancy testing has had significant—and not always expected—impact and has led to changes in the ways in which we conceive of pregnancy itself.

Jesse Olszynko-Gryn is a historian of science, technology, and medicine at the University of Strathclyde in Glasgow. As co-lead on the internationally collaborative research project "Risky Hormones," he works with patient groups to investigate the contested science and politics of birth defects in the post-thalidomide world.

public health | history of medicine

December | 6 x 9, 416 pp. | 117 color illus., 14 b&w illus.

US $50.00X/$66.00 CAN paperback
978-0-262-54439-9

Inside Technology series

A Place for Science and Technology Studies

Observation, Intervention, and Collaboration

Jane Calvert

An exploration of science and technology studies in eight different places, and the possibilities that arise for observation, intervention, and collaboration.

Where does science and technology studies (STS) belong? In *A Place for Science and Technology Studies*, Jane Calvert takes readers through eight different rooms—the laboratory, the conference room, the classroom, the coffee room, the art studio, the bioethics building, the policy room, and the ivory tower—investigating the possibilities and limitations of each for STS research.

Drawing from over a decade of work in synthetic biology, Calvert explores three different orientations for STS—observation, intervention, and collaboration—to ask whether there is a place for STS, which, as an undisciplined field, often finds itself on the periphery of traditional institutions or dependent on more generously funded STEM disciplines. Using examples of failures and successes and tackling enduring concerns about the relations between social scientific researchers and their fields of study, Calvert argues for an approach to STS that is collaborative yet allows for autonomy.

Jane Calvert is Professor of Science and Technology Studies at the University of Edinburgh. She is the coauthor of *Synthetic Aesthetics: Investigating Synthetic Biology's Designs on Nature* (MIT Press).

science & technology studies | education

January | 6 x 9, 240 pp. | 10 b&w illus.

US $40.00X/$54.00 CAN paperback
978-0-262-54694-2

Dare to Invent the Future

Knowledge in the Service of and through Problem-Solving

Clapperton Chakanetsa Mavhunga

A rallying manifesto for the innovative problem-solving we need to build a better, more verdant, and sustainable planetary existence.

Academics are letting Africa down. With all that we know, what do we have to show for it? Whose lives have been changed for the better by it? What have we done for and with our communities lately? In this provocative book—the first in a trilogy—Clapperton Chakanetsa Mavhunga argues that our critical thinkers must become actual thinker-doers. Taking its title from one of Thomas Sankara's most inspirational speeches, *Dare to Invent the Future* looks for moments in Africa's story where precedents of critical thought and knowledge in service of problem-solving are evident to inspire readers to dare to invent such a knowledge system.

Mavhunga revisits insights from Edward Wilmot Blyden, Booker T. Washington, Aimé Césaire, Frantz Fanon, Amílcar Cabral, Julius Nyerere, and Sankara to illustrate how the academic disciplines have been, and could be, deployed in the service of and through problem-solving, building on what people are doing and know. At its core, he writes, knowledge in the service of and through problem-solving derives from reading the past for new questions, doing due diligence on the present, and contriving an anticipatory approach toward the future.

Questioning the fundamental premises of Western and white knowledge production, especially regarding science and technology, Mavhunga proposes in this book refreshingly new approaches to thinking-doing that stem from African realities, in the hopes of inspiring a generation that will run toward, not away from, problems to solve them.

Clapperton Chakanetsa Mavhunga is Professor of Science, Technology, and Society at MIT. He is the author of *The Mobile Workshop* and *Transient Workspaces* and the editor of *What Do Science, Technology, and Innovation Mean from Africa?* (all published by MIT Press). He is also the founding director of Nyamudira Hills Research || Design || Build (RDB), a catalytic space that provides science and engineering support to rural communities in Zimbabwe and the African continent.

technology

November | 7 x 9, 368 pp. | 50 b&w illus.

US $65.00X/$86.00 CAN paperback
978-0-262-54686-7

Global South Cosmologies and Epistemologies series

No Heavenly Bodies

A History of Satellite Communications Infrastructure

Christine E. Evans and Lars Lundgren

The compelling and little-known history of satellite communications that reveals the Soviet and Eastern European roles in the development of its infrastructure.

Taking its title from Hannah Arendt's description of artificial earth satellites, *No Heavenly Bodies* explores the history of the first two decades of satellite communications. Christine Evans and Lars Lundgren trace how satellite communications infrastructure was imagined, negotiated, and built across the Earth's surface, including across the Iron Curtain. While the United States' and European countries' roles in satellite communications are well documented, Evans and Lundgren delve deep into the role the Soviet Union and other socialist countries played in shaping the infrastructure of satellite communications technology in its first two decades.

Departing from the Cold War binary and the competitive framework that has animated much of space historiography and telecommunications history, *No Heavenly Bodies* focuses instead on interaction, cooperation, and mutual influence across the Cold War divide.

Evans and Lundgren describe the expansion of satellite communications networks as a process of negotiation and interaction, rather than a simple contest of technological and geopolitical prowess. In so doing, they make visible the significant overlaps, shared imaginaries, points of contact and exchange, and negotiated settlements that determined the shape of satellite communications in its formative decades.

Christine Evans is Associate Professor of History at the University of Wisconsin-Milwaukee. Her first book, *Between Truth and Time: A History of Soviet Central Television*, received an Honorable Mention for the 2017 USC Book Prize in Literary and Cultural Studies. **Lars Lundgren** is Associate Professor of Media and Communication Studies at Södertörn University. His work has been published in *Media History, European Journal of Cultural Studies,* and *International Journal of Communication*.

history of technology | communication studies

November | 6 x 9, 256 pp. | 9 color illus., 18 b&w illus.

US $40.00X/$54.00 CAN paperback
978-0-262-54690-4

Infrastructures series

Rational Accidents

Reckoning with Catastrophic Technologies

John Downer

An unflinching look at the unique challenges posed by complex technologies we cannot afford to let fail—and why the remarkable achievements of civil aviation can help us understand those challenges.

Nuclear reactors, deep-sea drilling platforms, deterrence infrastructures—these are all complex and formidable technologies with the potential to fail catastrophically. In *Rational Accidents*, John Downer outlines a new perspective on technological failure, arguing that undetectable errors can lurk in even the most rigorous and "rational" assessments of these systems due to the inherent limits of engineering tests and models. Building on this, Downer finds that it should be impossible, from an epistemological viewpoint, to achieve the near-perfect reliability we require of our most safety-critical technologies. There is, however, one such technology that demonstrably appears to achieve these "impossible" reliabilities: jetliners.

Downer looks closely at civil aviation and how it has reckoned with the problem of failure. He finds that the way we conceive of jetliner reliability hides the real practices by which it is achieved. And he shows us why those practices are much less transferrable across technological domains than we are led to believe. Fully understanding why jetliners don't crash, he concludes, should lead us to doubt the safety of other "ultra-reliable" technologies.

A unique and sobering exploration of technological reliability from an STS perspective, *Rational Accidents* is essential reading for understanding why our most safety-critical technologies are even more dangerous than we believe.

John Downer is Senior Lecturer in Risk and Resilience at the University of Bristol.

technology | science and technology studies

January | 6 x 9, 336 pp. | 8 b&w illus.

US $50.00X/$66.00 CAN paperback
978-0-262-54699-7

Inside Technology series

Making Meaning with Machines

Somatic Strategies, Choreographic Technologies, and Notational Abstractions through a Laban/Bartenieff Lens

Amy LaViers and Catherine Maguire

A rigorous primer in movement studies for designers, engineers, and scientists that draws on the fields of dance and robotics.

How should a gestural interface react to a "flick" versus a "dab"? Versus a "punch"? Should robots reach out to a human counterpart with a direct, telescoping action or through a circuitous arc in space? Just as different movements express the different internal states of human movers, so too can the engineered systems behind robots. In *Making Meaning with Machines*, Amy LaViers and Catherine Maguire offer a refreshingly embodied approach to machine design that supports the growing need to make meaning with machines by using the field of movement studies, including choreography, somatics, and notation, to engage in the process of designing expressive robots.

Drawing upon the Laban/Bartenieff tradition, LaViers and Maguire sharpen the movement analysis methodology, expanding the material through their work with machines and putting forward new conventions, such as capitalization, naming, and notation schemes, that make the embodied work more legible for academic contexts. The book includes an overview of movement studies, exercises that define the presented taxonomy and principles of movement, case studies in movement analysis of both humans and robots, and state-of-the-art research at the intersection of robotics and dance.

Making Meaning with Machines is a much-needed primer for observing, describing, and creating a wide array of movement patterns, which ultimately can help facilitate broader and better design choices for roboticists, technologists, and designers.

Amy LaViers runs the Robotics, Automation, and Dance Lab, a Philadelphia-based nonprofit for art-making, commercialization, education, outreach, and research. **Catherine (Cat) Maguire** has been teaching in the Laban/Bartenieff Movement System for over 40 years and works as a faculty member of WholeMovement, a coterie of movement analysts working together to promote movement studies globally. She also teaches ongoing movement classes at McGuffey Art Center in Charlottesville, Virginia.

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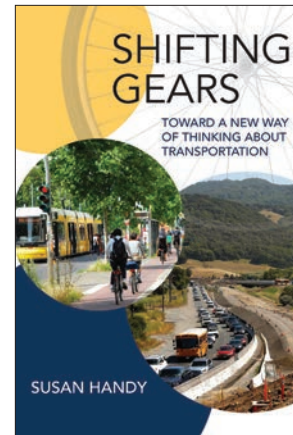
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Susan Handy is Distinguished Professor of Environmental Science and Policy and Director of the National Center for Sustainable Transportation at the University of California, Davis, where she also chairs the graduate program in Transportation Technology and Policy.

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Jonathan Silver is Senior Research Fellow at the Urban Institute,
University of Sheffield. A trained urban geographer, he has been
awarded grants from the Leverhulme Trust, European Research
Council, and UK ESRC.

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