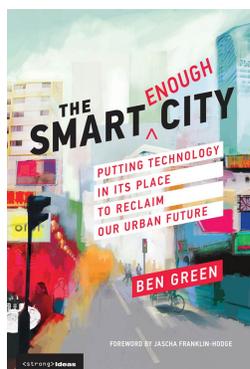
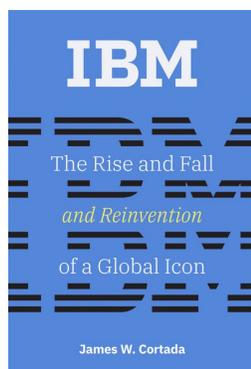
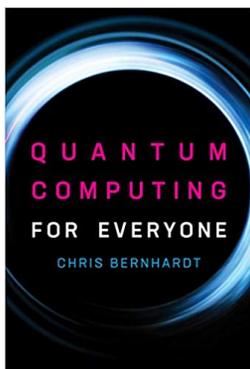
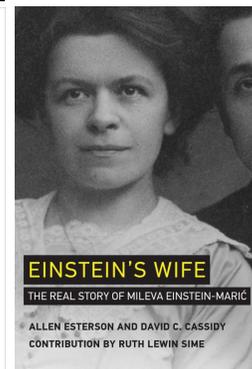
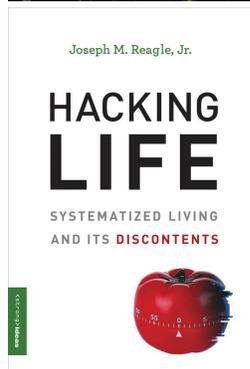
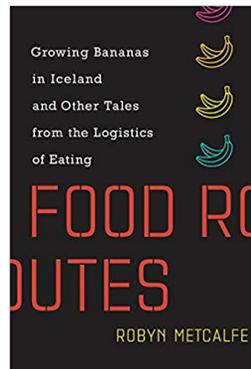
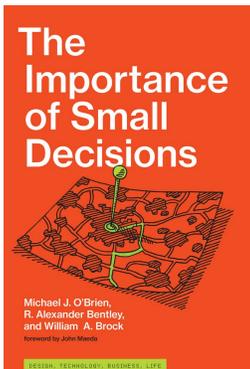
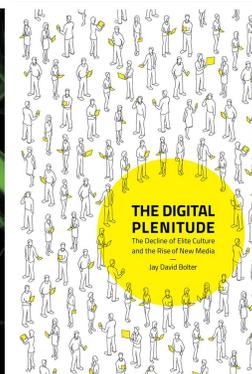
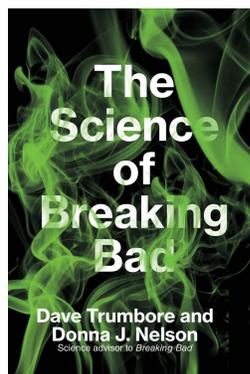
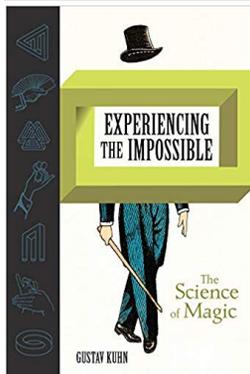
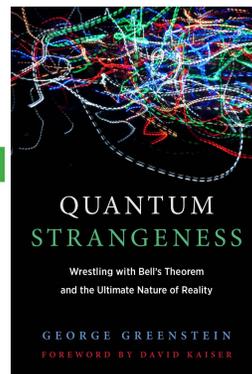
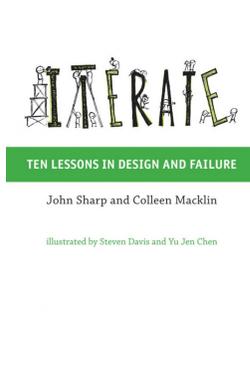
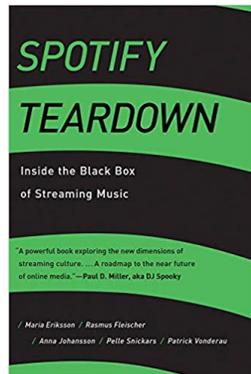
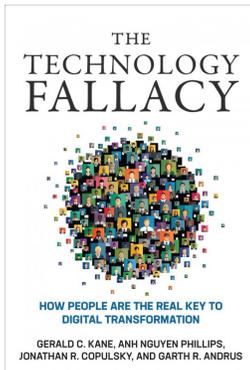


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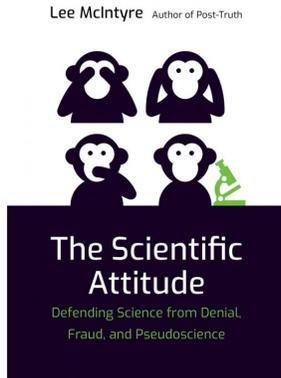
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"An important book for our post-truth culture." – **Michael Patrick Lynch**; author of *The Internet of Us*

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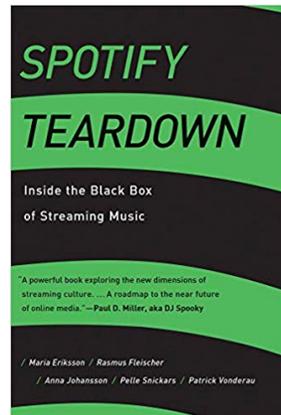
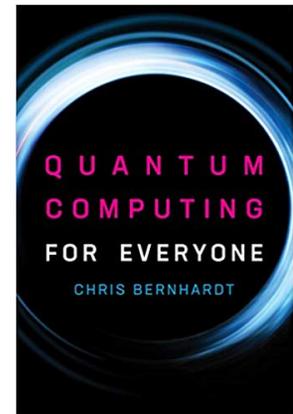
by Chris Bernhardt

An accessible introduction to an exciting new area in computation, explaining such topics as qubits, entanglement, and quantum teleportation for the general reader.

"There has been a tremendous media buzz about the coming quantum computing revolution. This extremely accessible book will guide you through the many parts of quantum computing."

– **Noson S. Yanofsky**, author of *The Outer Limits of Reason*

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SPOTIFY TEARDOWN: Inside the Black Box of Streaming Music
 by Maria Eriksson, Rasmus Fleischer, Anna Johansson, Pelle Snickars

An innovative investigation of the inner workings of Spotify that traces the transformation of audio files into streamed experience.

"As much a chronicle of Spotify the company as it is an open-ended question about the future of music.." —**Rolling Stone**

"This incredible investigation will open your eyes to an entire universe of data sharing and online marketing occurring at octaves too low for human consciousness to detect." —**Big Think**

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IBM: The Rise and Fall and Reinvention of a Global Icon

by James W. Cortada

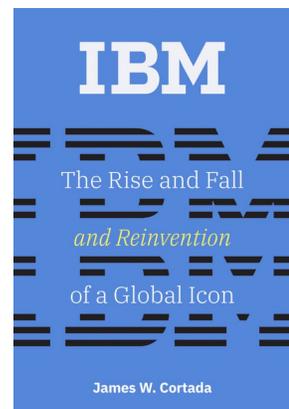
An authoritative, monumental history of one of the most influential American companies of the last century told by a 30-year IBM insider.

"An excellent—and I am tempted to label definitive—book.... The research and background context is amazing and the book highly readable" — **Tyler Cowen**, economist and blogger (*Marginal Revolution*)

"An essential work for one wishing to understand the historical development of our global technology industry."

— **David G. Arscott**, co-founder Compass Technology Group

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Forthcoming 2019

HOW TO BE HUMAN IN THE DIGITAL ECONOMY by Nicholas Agar

In the new digital economy, we accept that baristas and cab drivers will be automated out of their jobs in the name of computerized efficiency and lower expenses. But artificial intelligence now threatens to take over not just routine tasks, but the “mind work” previously the domain of human intellect. Surgeons and airline pilots should be worried too. For Agar (Univ. of New Zealand), that’s a bridge-too-far. He offers a hybrid digital economy - or *social* economy - centering on the connection between human minds, celebrating *humanness* over *efficiency*, and rejecting easy digital automation as a poor substitute. People do the jobs for which feelings matter and machines take on data-intensive work. “The book seals his place as the foremost philosophical defender of humanness in a robust technological age.” - Russell Powell, Boston University (*MARCH*, 288 pages)

SIX CONCEPTS FOR THE END OF THE WORLD by Steve Beard

Goldsmith's Press

Novelist Beard mixes scientific research with experimental fiction to produce a manual for the apocalypse. Using the theories of French philosopher Paul Virilio as a springboard, he creates fictional scenarios for six disciplines—technology, sociology, geography, psychology, theology and narratology. The approach allows Beard to create one surprising idea after another: Hollywood viewed as a research and development lab for the end times, a first-person account of a UFO abduction, a blog on the disappearance of the Malaysian Airlines flight 370, a voice-over for an imaginary film by a doomsday cult member... Highly original in both form and content, the book surprises and delights in its scope offering an expertly guided tour through the author’s imagination, a navigational aid for the end of the world. (*SEPT*, 192 pages)

NOTES MADE WHILE FALLING by Bruce Bennett

Goldsmith's Press

A genre-bending meditation on sickness, spirituality, creativity, and the redemptive powers of writing. At its heart is a memoir of a disastrously traumatic childbirth and its long aftermath. Interspersed, Ashworth offers ruminations on fairgrounds, Agatha Christie, literary festivals, neuroscience, the Bible, Chernobyl and King Lear taking us on a journey through familiar landscapes transformed through unexpected encounters and comic observations. The everyday provides the ground for the absurd, as the narration twists and stretches time. As it hovers on the edge of madness, writing, it seems, might keep us sane—or might just allow us to keep on living. (*OCT*, 200 pages)

THE MEAT QUESTION: Animals, Humans, and the Deep History of Food by John Berson

Between 1960 and 2010, per capita meat consumption in the developing world more than doubled; in China, meat consumption grew ninefold. It has even been claimed that meat made us human—that humans disproportionately large brains evolved because our early ancestors ate meat. Berson, an anthropologist and historian, argues that we have the relationship between biology and capitalism backward by associating meat-eating with wealth and status. Instead, he argues, by enabling a capitalism defined by inequality meat-eating is a sign of poverty. The meat question then is to think about meat-eating in a way that goes beyond Paleo diets and PETA protests to address the deeply entwined economic and political lives of humans and animals past, present, and future. (*OCT*, 300 pages)

THE DIGITAL PLENITUDE: The Decline of Elite Culture and the Rise of Digital Media by Jay David Bolter

Two developments in the second half of the twentieth century have helped to define our current media culture: the rise of digital media and how that digital dissemination has marked the end of our collective belief in what we formerly called *Culture* (with a capital C). By breaking down traditional hierarchies of the visual arts, literature, and music, digital media has dissolved the previously sacrosanct media institutions – with their stables of “Critics” – and the lock on what we should see, feel, and think about popular art and culture. Less an argument favoring an elite form of culture over pop culture than an examination of how the pervasive power of new media has allowed the rise of the social and wrought these changes that have the divided societies we live in today. (*APRIL*, 240 pages)

WALTER BENJAMIN REIMAGINED: A Graphic Translation of Poetry, Prose, and Dreams by Frances Cannon

Artist-illustrator Frances Cannon calls her book “a graphic nonfiction *translation* of Walter Benjamin’s dreams, philosophies, and aphorisms.” Playful and wildly creative, Cannon’s art affectionately illuminates Benjamin’s philosophy. But rather than a guide to the Benjamin oeuvre, she offers a beautifully rendered work of graphic literature as she takes the reader on a visual stroll inspired by Benjamin’s words, constructing a creative topography of his writing through her drawings. One reviewer said: “We need to come up with a new name for something so wonderful in the world.” For examples of Frances Cannon’s work, see below and on her site: <https://frankyfrancescannon.com/tag/book/>. (*MAY*, 120 pages)

SEE SOONER, ACT FASTER: How Vigilant Leaders Thrive in an Era of Digital Turbulence

by George S. Day and Paul J. H. Schoemaker

For companies blindsided by disruptive change, Day and Schoemaker of the Wharton School provide leaders with the tools necessary to be vigilant and proactive—enabling them to respond to threats and opportunities that emerge from both outside and inside the company. This latest book is designed to help leadership teams navigate deep uncertainty in general and digital turbulence in particular. The authors' guidance is grounded in academic research and real-world consulting experience, guiding organizations through their own transformations. They argue that business leaders need to become vigilant: to see risks and opportunities sooner and to position themselves to act faster to address them. This entails asking the right questions, listening to people at all levels of the organization, bringing in new perspectives, lengthening the time horizon for thinking about strategy, running experiments, engaging in scenario planning, and making strategic partnerships. (*SEPT*, 300 pages)

DECOMPOSED: The Political Ecology of Music by Kyle Devine

This fascinating hidden history of recorded music examines the raw materials that fuel our musical consumption. From the bug-based resin of the early 78s (1900-1950), petroleum / plastic of the LP and compact disc (1950-2000), to the current data-based audio files of current MP3s may seem like a trajectory of progressive dematerialization. Yet, Devine shows that music's materiality is actually more taxing on the planet and its people than ever before. The retro rise in demand for LPs, for instance, is a rise in demand for plastic—and, as a result, the products of petrochemicals the politics of petrocapiatalism, and the perpetuation of our cultural addiction to oil. Devine turns on its head the widespread perception that music is the most immaterial of the arts—far from it. (*OCT*, 240 pages)

EINSTEIN'S WIFE: The Real Story of Mileva Einstein-Maric by Allen Esterson and David C. Cassidy

Who was the real Mileva Einstein-Maric, first wife of Nobel Prize winning physicist Albert Einstein, and what role (if any) did she play in her husband's legacy? Einstein's work and his theories of relativity, quantum theory, and atomic theory form the foundations of contemporary physics. Mileva was trained alongside Einstein and much has been written – often with fervent certitude – that she deserves a prominent place in discussions of his work. Guided by the historical urge to “get it right”, Esterson & Cassidy offer a journey into the biographical facts and scientific evidence of this pioneer woman of science. “An intelligent woman who worked hard to get an intellectually demanding education and suffered deep personal blows on top of the deeper bruise of being the wrong gender at the turn of the wrong century.” — *Nature* (*APRIL*, 336 pages)

INNOVATION + EQUALITY: How to Create a Future That Is More Star Trek Than Terminator by Joshua Gans

Is economic inequality the price we pay for innovation? Economist Joshua Gans and policy maker Andrew Leigh make the case that pursuing innovation does not mean giving up on equality—precisely the opposite. They outline ways that society can become both more entrepreneurial and more egalitarian. All innovation entails uncertainty; there's no way to predict which new technologies will catch on. Therefore, Gans and Leigh argue, rather than betting on the future of particular professions, we should consider policies that embrace uncertainty and protect people from unfavorable outcomes. (*OCT*, 288 pages)

FIND YOUR PATH: Unconventional Lessons from 36 Leading Scientists and Engineers by Daniel Goodman

This insightful book offers career lessons from thirty-six leading scientists and engineers describing the challenges, struggles, successes, satisfactions, dead ends and U-turns encountered as they established their careers. Men and women, academics and professionals, share the paths that took them to university campuses, private industry and/or government. They discuss the balancing of solitary research vs. collaborative teamwork; their attempts to achieve work-life balance; and unplanned changes in direction that resulted in a more satisfying career. Women describe confronting overt sexism and institutional gender bias; scientists of color describe the experience of being outsiders in their field. Taken together, this collection offers newcomers to the field a career primer—and the confidence that there is not one path to a profession in science, but many. (*DEC*, 400 pages)

DR. SPACE JUNK VS. THE UNIVERSE: Archaeology and the Future by Alice Gorman

NASA estimates there are now more than 500,000 bits of human-made debris the size of a marble or larger orbiting the Earth. Space archaeologist Alice Gorman - who goes by the *nom de blog* "Dr. Space Junk" - studies probes, modules, “satellites, rockets, fairings, bolts, flecks of paint, vented fuel, and even human waste” and the nearly 1,500 active satellites on which our interlinked, technology-addicted way of life depends. Erudite and playful, Gorman reveals that space is not as empty as we might think. and that by looking up and studying space artifacts, we can learn an awful lot about our own culture on earth. (*OCT*, 320 pages)

THE SMART ENOUGH CITY: Putting Technology in Its Place to Reclaim Our Urban Future by Ben Green

"Cities don't need fancy new technology," says Ben Green of the Berkman Klein Center for Internet & Society at Harvard University. "They need us to ask the right questions, understand the issues that residents face, and think creatively about how to address those problems." Green describes smart city efforts gone wrong: self-driving cars forcing out pedestrians in our downtowns; civic engagement limited to app interaction; police using algorithms to justify racist practices; and governments and private companies surveilling public spaces to control behavior. By recognizing the complexity of urban life rather than merely seeing the city as something to optimize, smart enough alternatives—attainable with the help of technology but not reducible to technology—can create a livable, democratic, just, responsible, and innovative city. (APRIL, 256 pages)

RESISTING REDUCTION: Designing Our Complex Future with Machines by Joi Ito

When bestselling author and director of MIT's Media Lab Joi Ito published his essay, "Resisting Reduction: A Manifesto," about human flourishing in an age of machine intelligence, his argument against industrial optimization in the pursuit of growth and for the importance of natural complexity and resilience received such an impassioned response that he invited writers to develop full-length essays to continue the conversation. This resulting collection challenges Silicon Valley's "groupthink" and "cult of technology" and the claim that narrow technical solutions can resolve the world's complex problems. The collective message here is that more computing power does not make us more "intelligent", human thought does. A provocative, hopeful collection that imagines a future not reduced to algorithms and that heeds futurist Norbert Wiener's cautionary warning for the creator to maintain control over the created. (SEPT, 200 pages).

HANDMADE PIXELS: Independent Video Games and the Quest for Authenticity by Jesper Juul

The game studies pioneer and author of *The Art of Failure* and *Half-Real* offers an expert investigation into the development over the past twenty years of independent video games—creative, personal, strange, and experimental—with their claims to handcrafted authenticity in a purely digital medium. Juul (Royal Danish Academy of Fine Arts, School of Design, Copenhagen) traces the rise of how independent games became a historical movement that borrowed the "indie" moniker from film and music while establishing its own brand of independence. He describes how the visual, often *retro* style signals indie's authenticity and how the developers of games like *Dys4ia* and *Firewatch* used DIY strategies in design and creation that emphasized financial, aesthetic, and cultural independence. (SEPT, 200 pages)

THE TECHNOLOGY FALLACY: How People Are the Real Key to Digital Transformation

by Gerald C. Kane, Anh Nguyen Phillips, Jonathan Copulsky, and Garth Andrus

Digital transformation has become a panacea in business, synonymous with "success." But while digital modernization is essential to compete and survive in today's business world, too often business leaders ignore their company's most valuable asset: its people. The authors – researchers from MIT's Sloan School of Management and Deloitte – surveyed over 16,000 people (66% outside the U.S.) and interviewed 75+ thought leaders from companies from Adobe to Walmart at various stages of the digital maturity spectrum. Each chapter offers actionable takeaways for leaders providing an authoritative guide to digital maturity that assists leaders in leading their organization into a digital future at whatever level their influence allows. (APRIL, 280 pages)

THE FEELING OF LIFE ITSELF: Why Consciousness is Widespread, but Can't Be Computed

by Christof Koch

What is consciousness? When does it begin? How will it end? Can it be replicated through the advances of artificial intelligence? The president of Seattle's Allen Institute for Brain Science, former professor of neuroscience at Cal Tech and author of the bestselling *Consciousness* takes us on a journey to find answers to the age-old mystery of how conscious feelings come into being. Examining questions that have occupied philosophers and scholars of all cultures through the ages, Koch considers the taste of the food we eat, the wine we savor, the individual movies that run in our heads; the seeing, hearing, smelling, loving, hating, remembering, thinking, planning, plotting, imagining, dreaming, regretting, willing, wanting, wishing, hoping, and "conscious" dreading. "It's my experience," says Koch, "my pain, my pleasure, my hopes, my aspirations, my fears... it's the feeling of life itself. All of that is consciousness." A fascinating exploration of what it means to be a conscious being. (SEPT, 248 pages)

CHANGING MINDS: How Aging Affects Language and How Language Affects Aging

by Roger Kreuz and Richard Roberts

Compared with other aspects of cognition, language seems to remain resilient as we age. Kreuz & Roberts explain the cognitive processes underlying our language ability, exploring in particular how changes in these processes lead to changes in listening, speaking, reading, and writing. Their research shows that what appear to be changes in an older person's language ability are actually produced by declines in such other cognitive processes as memory and perception. In fact, some language abilities, including the size of our vocabulary, writing and storytelling ability, may even improve with age. Certain language activities—including reading fiction and engaging in deep conversation—may even help us live fuller and healthier lives. A book to savor as we age. (*OCT*, 288 pages)

EXPERIENCING THE IMPOSSIBLE: The Science of Magic by Gustav Kuhn

Magic, one of our most enduring forms of entertainment, poses fundamental philosophical and psychological questions; yet it has received little attention from professionals outside its sphere. In recent years psychologists, neuroscientists and philosophers have studied magic more systematically, and the science of magic is now a field of its own with scientific data gathered that helps explain psychological and neurological mechanisms that underpin these mystifying experiences. The author, a magician and psychologist, discusses the latest scientific research on magic, providing intriguing, often unsettling insights into the mysteries of the human mind. (*MARCH*, 344 pages)

ZONING CHINA: A Gentle Introduction to Computational Astronomy by D. L. Lawrence

An examination of “cultural zoning” in China considers why government regulation of online video is so much more lenient than its regulation of broadcast television. Luzhou Li (National University of Singapore) argues that television has largely been the province of the state, even as the market has dominated the development of online video. As a result, online video became the space to question state media and the state's preferred ideological narratives about the nation, history, and society. Li connects this relatively unregulated arena to the “second channel” that opened up in the early days of economic reform—piracy in all its permutations. She compares the dual cultural sphere to China's economic zoning; the marketized domain of online video is the cultural equivalent of the Special Economic Zones, which were developed according to market principles in China's coastal cities. (*OCT*, 272 pages)

FOOD ROUTES: Growing Bananas in Iceland and Other Tales from the Logistics of Eating by Robyn Metcalfe

Media attention on food tends to feature inventive and charismatic chefs, the rise of farmer's markets and of food deserts, GMO controversies, the power of culture in cuisine, diet fads, and so on. But how does food, be it industrial or small scale, local or from across the globe, nutritious or unhealthy, get to our plate? Disruptive changes occurring within the global food supply chain are underway, causing us to re-imagine a future food system that may look very different from our traditional practice of delivering food from farms to plates. Technology is the key driver in this change, and the arrival of connectedness and Big Data, contribute to a revolutionary change in how we will feed ourselves in cities around the world. Future food may be engineered, networked, and nearly independent of crops grown in fields. (*MARCH*, 200 pages)

EXTRATERRESTRIAL LANGUAGES by Daniel Oberhaus

Are we alone in the universe? If not, how will we know? If we send a message into space, will extraterrestrial beings receive it? Will they answer? What languages will they (and we) speak? Is there a universal grammar of the universe? Science writer Oberhaus offers a history of our quest for extraterrestrial communication, exploring our various attempts to contact non-Earthlings over the centuries from SETI (the search for extraterrestrial life), CETI (communication with extraterrestrial life) and METI (messaging extraterrestrial life), to the one-way space voyage of Eila, an artificial intelligence agent that can play cards, tell fortunes, and recite poetry and the the launching of a theremin concert for aliens. Along the way, he considers how philosophy, linguistics, mathematics, science, and art have all informed the design of our interstellar messaging of the future. (*OCT*, 248 pages)

THE IMPORTANCE OF SMALL DECISIONS by Michael J. O'Brien, R. Alexander Bentley, and William A. Brock

Not long ago, economists looked at behavior in terms of rationality, i.e. agents act rationally in terms of their choices. Today, any notion that humans deliberate before coming to a rational decision has gone out the window. To begin to understand why, the authors offer a “map” of social behavior that captures essential elements of human decision-making with one axis measuring how well-informed people are about the risks and benefits of their choices, the other tracking the degree to which people make their decisions individually or socially. They approach decision-making habits as a key element of the enormous stage upon which evolution plays out. A short but powerful study that should be of interest not only to marketers but to social and behavioral scientists. (*MARCH*, 160 pages)

SHARENTHOOD by Leah H. Plunkett

Our children's first digital footprints are made before they can walk, as parents use fertility apps to aid conception, post ultrasound images, and share their baby's hospital mug shot. Then come terabytes of baby pictures stored in the cloud, digital baby monitors with built-in AI, and real-time updates from daycare. School begins with cafeteria cards that catalog food purchases, bus passes that track kids' commutes, electronic health records in the nurse's office, and a school surveillance system that has eyes everywhere. Unwittingly, parents, teachers, and other trusted adults are compiling digital dossiers for children that could be available to everyone—friends, employers, law enforcement—forever. Plunkett terms this “sharenthood”—adults' excessive digital sharing of children's data—and outlines the mistakes adults made, the risks taken, and the legal system that enables “sharenting.” The Internet needs to forget. We need to remember. (*SEPT*, 232 pages)

DOUBLE JEOPARDY: Combating Nuclear Terror and Climate Change by Daniel B. Poneman

Can we use nuclear energy to reduce the threat of climate change without increasing the risk that nuclear weapons will be used? The former US Deputy Secretary of Energy during the Obama administration argues that the world needs an “all-of-the-above” energy policy, one that advances the goal of decarbonizing the environment through all available means—including nuclear power. Poneman makes a persuasive case that we can use nuclear power to combat climate change even as we reduce the risks of nuclear terror through well-crafted laws and policies, implemented with an ethos of constant vigilance and embedded in a culture that weaves safety and security goals into the fabric of our nuclear programs. “Double Jeopardy should be required reading for policymakers.” – Ernest J. Monizformer, U.S. Secretary of Energy and CEO, Nuclear Threat Initiative (*MAY*, 152 pages)

ITERATE: Ten Lessons in Design and Failure by John Sharp and Colleen Macklin

Failure is an inevitable part of any creative process. Game designers, John Sharp and Colleen Macklin (MIT's Media Lab) have grappled with crises of creativity, false starts, and bad outcomes. Their tool for coping with the many varieties of failure? *Iteration*, the cyclical process of conceptualizing, prototyping, testing, and evaluating. While most creative disciplines use some form of iteration, most tend to stick to one or two methods, and tend not to seek out best practices from other fields. *Iterate* covers the iterative methods from a wide spectrum of creative pursuits—the culinary arts, music, sports, writing, radio, user experience design, game design, film-making and product design—in order to extract innovative and productive ways to enhance and expand the ways iteration is used as a design methodology. From film maker Miranda July to wine maker Allison Taziet to professional skateboarder Amelia Bródka, *Iterate* offers the best tools we have for making constructive use of our failures. (*MAY*, 296 pages)

A THEORY OF JERKS and Other Philosophical Misadventures by Eric Schwitzgebel

Have you ever wondered why some people are jerks? Considered the ethics of professional ethicists? Reflected on the philosophy of hair? Asked whether your driverless car should kill you so that others may live? Found a robot adorable? In this entertaining and enlightening book, the University of California professor lends his philosopher's eye to these and other burning questions in a series of quirky and accessible short pieces that cover a mind-boggling variety of philosophical topics. From the minute (the consciousness of garden snails) to the broad (time, space, and causation), he examines the ragged edge of human intellect, where philosophical reflection turns against itself, lost among doubts and improbable conclusions. Schwitzgebel shows how the history of philosophy is humbling when we hold a light to how badly wrong previous thinkers have been, despite their intellectual skills and confidence. For readers of Daniel Dennett and Steven Pinker. (*NOV*, 320 pages)

GROWTH: From Microorganisms to Megacities by Vaclav Smil

In this follow-up to his bestselling *Energy and Civilization*, Bill Gates' favorite scientific historian offers a magisterial, systematic investigation of growth. In both the natural and manmade worlds, Smil looks at how growth has governed everything from the lives of microorganisms and galaxies; the capacity of our extraordinarily large brains; the fortunes of our economies, energy conversions, and the essential economic activities of civilization. He looks at the complex growth of human populations, of cities, and trajectories of empires and civilizations, an effort that is much less linear and explicable than charting the growth of organisms across evolutionary time. Smil concludes that the trajectory of modern civilization, driven by competing imperatives of material growth and biospheric limits, remains uncertain, the end yet to be written. “When will the collapse come?” he asks. “Constantly we are collapsing. Constantly we are fixing.” Bill Gates chose *Energy and Civilization* as one of his *Top 5 Books of 2017* saying: “I wait for new Smil books the way some people wait for the next 'Star Wars' movie.” (*SEPT*, 688 pages)

THE PROMISE OF ARTIFICIAL INTELLIGENCE: *Reckoning and Judgment* by Brian Cantwell Smith

The MIT-trained, Stanford and Univ. of Toronto cognitive scientist argues that artificial intelligence is not close to developing systems that are genuinely intelligent. Smith examines the history of AI from its first-wave origins (“good old-fashioned AI,” or GOFAI) to such celebrated second-wave approaches as machine learning, paying particular attention to recent advances that have led to excitement, anxiety, and debate. He then unpacks the notion of intelligence itself—what sort humans have, and what sort AI aims at. Current AI ability— that second wave machine learning, and even visions of third-wave AI—Smith terms *reckoning*. He argues *reckoning* cannot lead to full human *judgment*—dispassionate, deliberative thought grounded in ethical commitment and responsible action honed over millennia. Finally, he worries that, impressed by AI’s reckoning prowess, we will shift our expectations of human intelligence. What we should do, he argues, is learn to use AI for the reckoning tasks at which it excels while we strengthen our commitment to judgment, ethics, and the world. (*AUG*, 192 pages).

BEYOND THE VALLEY: How a New Crop of Global Innovators Is Doing More With Less, Shaping the Technologies of Tomorrow, While Transcending the Inequalities of Today by Ramesh Srinivasan

Ramesh Srinivasan describes the internet as both an enabler of frictionless efficiency and a dirty tangle of politics, economics, and other inefficient, inharmonious human activities. We may love the immediacy of Google Search results, the convenience of buying from Amazon, and the elegance and power of our Apple devices, but it’s a one-way, top-down process. No input, or opinions, please—just your data. The internet is brought to us by wealthy technologists in Silicon Valley and China. In search of a more democratic internet, Srinivasan takes us to the mountains of Oaxaca, East and West Africa, China, Scandinavia, South America, visiting the “design labs” of rural, low-income, and indigenous people around the world. He talks to a range of high-profile public figures—US Senator Elizabeth Warren, former US Attorney General Eric Holder, Noam Chomsky, Lawrence Lessig, and the founders of Reddit, as well as community organizers, labor leaders, and human rights activists. Ultimately he decides that to make a better internet we need a new ethic of diversity, openness, and inclusivity, empowering those excluded from the tech design conversation, those surveilled and those exploited. It’s time to think in terms beyond the Valley. (*OCT*, 350 pages)

HANDPRINTS ON HUBBLE: An Astronaut’s Story of Invention by Kathryn D. Sullivan

The Hubble Space Telescope has revolutionized our understanding of the universe. It has revealed thousands of galaxies in what seemed to be empty patches of sky; transformed our knowledge of black holes; found dwarf planets with moons orbiting other stars; and measured precisely how fast the universe is expanding. Sullivan, the first American woman to walk in space, recounts how she and other astronauts, engineers, and scientists launched, rescued, repaired, and maintained Hubble, the most productive observatory ever built. Along the way, she chronicles her early life as a “Sputnik Baby,” her path to NASA through oceanography, her initiation into the space program as one of “thirty-five new guys”, and describes in vivid detail what liftoff feels like inside a spacecraft (“like being in an earthquake and a fighter jet at the same time”), shows us the view from a spacewalk, and recounts the temporary grounding of the shuttle program after the Challenger disaster. (*NOV*, 248 pages)

FIRE, ICE, AND PHYSICS: The Science of Game of Thrones by Rebecca C. Thompson

The hugely successful television show *Game of Thrones* is a fantasy world featuring a lot of made-up science—fabricated climatology (when is winter coming?), astronomy, metallurgy, chemistry, and biology. Fans of George R. R. Martin’s hit show accept it all as part of the magic. But a trained scientist watching the fake science might think: “But how would it work?” Luckily, we have Rebecca Thompson, superfan and PhD physicist, to explore with her scientist’s eye the science of an ice wall, the genetics of the Targaryen and Lannister families, and the biology of beheading. Thompson uses the show’s fantasy science as a gateway to some interesting real science, introducing fandom to a new dimension of appreciation. An essential companion to George R. R. Martin’s world for fans of the show and fans of science. (*SEPT*, 350 pages)

THE LOST PLANETS: Peter Van de Kamp and the Vanishing Exoplanets around Barnard’s Star

by John Wenz

A 1960’s scientific discovery tale of new planetary systems – and the subsequent controversy that arose when the scientific community refuted the claims. In 1963, Van de Kamp, the Dutch astronomer and director of Swarthmore’s Sproul Observatory, announced that he had identified a planet around Barnard’s star, citing deviations in Barnard’s path—“wobbles”—that suggested a large object was lurching around the star. Van de Kamp claimed that this proved the star had a planetary system like our own, the first such discovery of its kind and bringing him instant celebrity. However, subsequent research questioned his claims. Subsequent researchers dismissed him outright from the 1970’s onward. But in 2018, an exoplanet was detected around Barnard’s star. Though not the exact planet Van de Kamp thought he had discovered in 1963, the finding showed his general theory was sound and over fifty years later his reputation has been restored. (*SEPT*, 350 pages)

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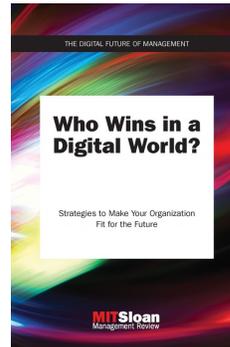
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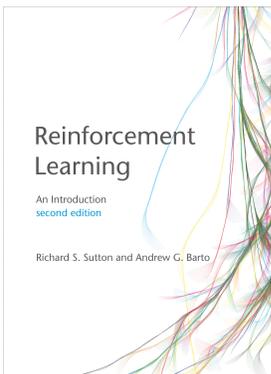
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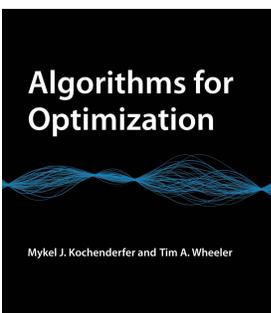
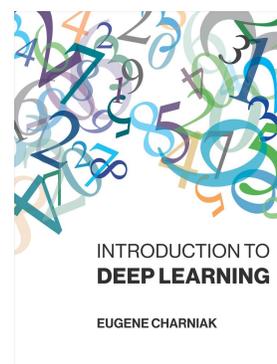
INTRODUCTION TO DEEP LEARNING by Eugene Charniak

A concise, project-driven guide to deep learning from a longtime AI researcher taking students through program-writing to introduce them to the use of DL in such areas of AI as computer vision, natural-language processing, and reinforcement learning. Basic algebra, calculus, probability and statistics required. (*JAN*, 184 pages)

“A masterfully executed book.” – Peter Norvig, Research Director, **Google**

“An ideal textbook for students and others seeking an insightful introduction to deep learning.” – Chris Manning, Professor of Computer Science, **Stanford University**

Rights sold: China (Posts & Telecom Press); Korea (Hantee Media).



ALGORITHMS FOR OPTIMIZATION by Mykel J. Kochenderfer and Tim A. Wheeler

A comprehensive introduction to optimization with a focus on practical algorithms for the design of engineering systems. For advanced undergraduates and graduate students in mathematics, statistics, computer science, any engineering field. Stanford University’s Kochenderfer is the author of the bestselling text *Decision Making Under Uncertainty*. Wheeler is a software engineer at Kitty Hawk Corporation in Mountain View, California. (*528 pages*)

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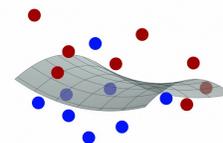
FOUNDATIONS OF MACHINE LEARNING, Second Edition

by Mehryar Mohri, Afshin Rostamizadeh, and Ameet Talwalkar.

A new edition of a graduate-level machine learning textbook and reference for researchers that covers fundamental modern topics in machine learning while providing the theoretical basis and conceptual tools needed for the discussion and justification of algorithms. Three new chapters on model selection, maximum entropy models, and conditional entropy models plus a major section on Fenchel duality, expanded coverage of concentration inequalities, and an entirely new entry on information theory. More than half of the exercises are new to this edition. (*500 pages*)

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Foundations of
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Mehryar Mohri,
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Introduction to Natural Language Processing by Jacob Eisenstein

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