

CASS R. SUNSTEIN

Best-selling author of *Nudge: Improving Decisions About Health, Wealth, and Happiness*

HOW CHANGE HAPPENS

"Illuminating.... This is a work that demands—but rewards—the reader's full attention."
—Publishers Weekly (starred review)

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How Change Happens-Cass R. Sunstein 2020-04-14 How does social change happen? When do social movements take off? Sexual harassment was once something that women had to endure; now a movement has risen up against it. White nationalist sentiments, on the other hand, were largely kept out of mainstream discourse; now there is no shortage of media outlets for them. In this book, with the help of behavioral economics, psychology, and other fields, Cass Sunstein casts a bright new light on how change happens.

How Change Happens-Cass R. Sunstein 2019-04-09 The different ways that social change happens, from unleashing to nudging to social cascades. "Sunstein's book is illuminating because it puts norms at the center of how we think about change."—David Brooks, *The New York Times* How does social change happen? When do social movements take off? Sexual harassment was once something that women had to endure; now a movement has risen up against it. White nationalist sentiments, on the other hand, were largely kept out of mainstream discourse; now there is no shortage of media outlets for them. In this book, with the help of behavioral economics, psychology, and other fields, Cass Sunstein casts a bright new light on how change happens. Sunstein focuses on the crucial role of social norms—and on their frequent collapse. When norms lead people to silence themselves, even an unpopular status quo can persist. Then one day, someone challenges the norm—a child who exclaims that the emperor has no clothes; a woman who says "me too." Sometimes suppressed outrage is unleashed, and long-standing practices fall. Sometimes change is more gradual, as "nudges" help produce new and different decisions—apps that count calories; texted reminders of deadlines; automatic enrollment in green energy or pension plans. Sunstein explores what kinds of nudges are effective and shows why nudges sometimes give way to bans and mandates. Finally, he considers social divisions, social cascades, and "partysim," when identification with a political party creates a strong bias against all members of an opposing party—which can both fuel and block social change.

How Change Happens-Duncan Green 2016-10-27 Human society is full of would-be "change agents," a restless mix of campaigners, lobbyists, and officials, both individuals and organizations, set on transforming the world. They want to improve public services, reform laws and regulations, guarantee human rights, get a fairer deal for those on the sharp end, achieve greater recognition for any number of issues, or simply be treated with respect. Striking then, why so many universities lack programs for social activists, to which students can turn for advice and inspiration. Instead, scholarly discussions of change are fragmented with few conversations crossing disciplinary boundaries, rarely making it onto the radar of those actively seeking change. This book bridges the gap between academia and practice, bringing together the best research from a range of academic disciplines and the evolving practical understanding of activists to explore the topic of social and political change. Drawing on many first-hand examples from the global experience of Oxfam, one of the world's largest social justice NGOs, as well as the author's insights from studying and working on international development, it tests ideas on how change happens and offers the latest thinking on what works to achieve progressive change.

The Cost-Benefit Revolution-Cass R. Sunstein 2018-08-28 Why policies should be based on careful consideration of their costs and benefits rather than on intuition, popular opinion, interest groups, and anecdotes. Opinions on government policies vary widely. Some people feel passionately about the child obesity epidemic and support government regulation of sugary drinks. Others argue that people should be able to eat and drink whatever they like. Some people are alarmed about climate change and favor aggressive government intervention. Others don't feel the need for any sort of climate regulation. In *The Cost-Benefit Revolution*, Cass Sunstein argues our major disagreements really involve facts, not values. It follows that government policy should not be based on public opinion, intuitions, or pressure from interest groups, but on numbers—meaning careful consideration of costs and benefits. Will a policy save one life, or one thousand lives? Will it impose costs on consumers, and if so, will the costs be high or negligible? Will it hurt workers and small businesses, and, if so, precisely how much? As the Obama administration's "regulatory czar," Sunstein knows his subject in both theory and practice. Drawing on behavioral economics and his well-known emphasis on "nudging," he celebrates the cost-benefit revolution in policy making, tracing its defining moments in the Reagan, Clinton, and Obama administrations (and pondering its uncertain future in the Trump administration). He acknowledges that public officials often lack information about costs and benefits, and outlines state-of-the-art techniques for acquiring that information. Policies should make people's lives better. Quantitative cost-benefit analysis, Sunstein argues, is the best available method for making this happen—even if, in the future, new measures of human well-being, also explored in this book, may be better still.

How Change Happens-Leslie R. Crutchfield 2018-03-06 Discover how those who change the world do so with this thoughtful and timely book Why do some changes occur, and others don't? What are the factors that drive successful social and environmental movements, while others falter? How Change Happens examines the leadership approaches, campaign strategies, and ground-level tactics employed in a range of modern social change campaigns. The book explores successful movements that have achieved phenomenal impact since the 1980s—tobacco control, gun rights expansion, LGBT marriage equality, and acid rain elimination. It also examines recent campaigns that seem to have fizzled, like Occupy Wall Street, and those that continue to struggle, like gun violence prevention and carbon emissions reduction. And it explores implications for movements that are newly emerging, like Black Lives Matter. By comparing successful social change campaigns to the rest, *How Change Happens* reveals powerful lessons for changemakers who seek to impact society and the planet for the better in the 21st century. Author Leslie Crutchfield is a writer, lecturer, social impact advisor, and leading authority on scaling social innovation. She is Executive Director of the Global Social Enterprise Initiative (GSEI) at Georgetown University's McDonough School of Business, and co-author of two previous books, *Forces for Good* and *Do More than Give*. She serves as a senior advisor with FSG, the global social impact consulting firm. She is frequently invited to speak at nonprofit, philanthropic, and corporate events, and has appeared on shows such as ABC News Now and NPR, among others. She is an active media contributor, with pieces appearing in *The Washington Post*, *Fortune.com*, *CNN/Money* and *Harvard Business Review.com*. Examines why some societal shifts occur, and others don't Illustrates the factors that drive successful social and environmental movements Looks at the approaches, strategies, and tactics that changemakers employ in order to effect widescale change Whatever cause inspires you, advance it by applying the must-read advice in *How Change Happens*—whether you lead a social change effort, or if you're tired of just watching from the outside and want to join the fray, or if you simply want to better understand how change happens, this book is the place to start.

Democratizing Innovation-Eric Von Hippel 2006-02-17 The process of user-centered innovation: how it can benefit both users and manufacturers and how its emergence will bring changes in business models and in public policy. Innovation is rapidly becoming democratized. Users, aided by improvements in computer and communications technology, increasingly can develop their own new products and services. These innovating users—both individuals and firms—often freely share their innovations with others, creating user-innovation communities and a rich intellectual commons. In *Democratizing Innovation*, Eric von Hippel looks closely at this emerging system of user-centered innovation. He explains why and when users find it profitable to develop new products and services for themselves, and why it often pays users to reveal their innovations freely for the use of all.The trend toward democratized innovation can be seen in software and information products—most notably in the free and open-source software movement—but also in physical products. Von Hippel's many examples of user innovation in action range from surgical equipment to surfboards to software security features. He shows that product and service development is concentrated among "lead users," who are ahead on marketplace trends and whose innovations are often commercially attractive. Von Hippel argues that manufacturers should redesign their innovation processes and that they should systematically seek out innovations developed by users. He points to businesses—the custom semiconductor industry is one example—that have learned to assist user-innovators by providing them with toolkits for developing new products. User innovation has a positive impact on social welfare, and von Hippel proposes that government policies, including R&D subsidies and tax credits, should be realigned to eliminate biases against it. The goal of a democratized user-centered innovation system, says von Hippel, is well worth striving for. An electronic version of this book is available under a Creative Commons license.

The Fate of Greenland-Philip W. Conkling 2011 Experts discuss how Greenland's warming climate—seen in its melting ice sheets andretreating glaciers—could affect the rest of the world.

More from Less-Andrew McAfee 2020-10-13 From the coauthor of the New York Times bestseller *The Second Machine Age*, a paradigm-shifting argument "full of fascinating information and provocative insights" (*Publishers Weekly*, starred review)—demonstrating that we are increasing prosperity while using fewer natural resources. Throughout history, the only way for humanity to grow was by degrading the Earth: chopping down forests, polluting the air and water, and endlessly using up resources. Since the first Earth Day in 1970, the focus has been on radically changing course: reducing our consumption, tightening our belts, and learning to share and reuse. Is that argument correct? Absolutely not. In *More from Less*, McAfee argues that to solve our ecological problems we should do the opposite of what a decade of conventional wisdom suggests. Rather than reduce and conserve, we should rely on the cost-consciousness built into capitalism and the streamlining miracles of technology to create a more efficient world. America—a large, high-tech country that accounts for about 25% of the global economy—is now generally using less of most resources year after year, even as its economy and population continue to grow. What's more, the US is polluting the air and water less, emitting fewer greenhouse gases, and replenishing endangered animal populations. And, as McAfee shows, America is not alone. Other countries are also transforming themselves in fundamental ways. What has made this turnaround possible? One thing, primarily: the collaboration between technology and capitalism, although good governance and public awareness have also been critical. McAfee does warn of issues that haven't been solved, like global warming, overfishing, and communities left behind as capitalism and tech progress race forward. But overall, *More from Less* is a revelatory and "deeply engaging" (*Booklist*) account of how we've stumbled into an unexpectedly better balance with nature—one that holds out the promise of more abundant and greener centuries ahead.

Design, When Everybody Designs-Ezio Manzini 2015-03-06 The role of design, both expert and nonexpert, in the ongoing wave of social innovation toward sustainability. In a changing world everyone designs: each individual person and each collective subject, from enterprises to institutions, from communities to cities and regions, must define and enhance a life project. Sometimes these projects generate unprecedented solutions; sometimes they converge on common goals and realize larger transformations. As Ezio Manzini describes in this book, we are witnessing a wave of social innovations as these changes unfold—an expansive open co-design process in which new solutions are suggested and new meanings are created. Manzini distinguishes between diffuse design (performed by everybody) and expert design (performed by those who have been trained as designers) and describes how they interact. He maps what design experts can do to trigger and support meaningful social changes, focusing on emerging forms of collaboration. These range from community-supported agriculture in China to digital platforms for medical care in Canada; from interactive storytelling in India to collaborative housing in Milan. These cases illustrate how expert designers can support these collaborations—making their existence more probable, their practice easier, their diffusion and their convergence in larger projects more effective. Manzini draws the first comprehensive picture of design for social innovation: the most dynamic field of action for both expert and nonexpert designers in the coming decades.

The Hype Machine-Sinan Aral 2020-09-15 A landmark insider's tour of how social media affects our decision-making and shapes our world in ways both useful and dangerous, with critical insights into the social media trends of the 2020 election and beyond "In September, Sinan Aral published *The Hype Machine*. Five months later, the book might be described as prophetic: This month alone at least two of Aral's three predictions have come to fruition."—*New York NAMED ONE OF THE BEST BOOKS OF THE YEAR BY WIRED* • *LONGLISTED FOR THE PORCHLIGHT BUSINESS BOOK AWARD* MIT professor Sinan Aral isn't only one of the world's leading experts on social media—he's also an entrepreneur and investor, giving him an unparalleled 360-degree view of the technology's great promise as well as its outside capacity to damage our politics, our economy, and even our personal health. Drawing on two decades of his own research and business experience, Aral goes under the hood of the biggest, most powerful social networks to tackle the critical question of just how much social media actually shapes our choices, for better or worse. Aral shows how the tech behind social media offers the same set of behavior-influencing levers to both Russian hackers and brand marketers—to everyone who hopes to change the way we think and act—which is why its consequences affect everything from elections to business, dating to health. Along the way, he covers a wide array of topics, including how network effects fuel Twitter's and Facebook's massive growth to the neuroscience of how social media affects our brains, the real consequences of fake news, the power of social ratings, and the impact of social media on our kids. In mapping out strategies for being more thoughtful consumers of social media, *The Hype Machine* offers the definitive guide to understanding and harnessing for good the technology that has redefined our world overnight.

Design Justice-Sasha Costanza-Chock 2020-03-03 An exploration of how design might be led by marginalized communities, dismantle structural inequality, and advance collective liberation and ecological survival. What is the relationship between design, power, and social justice? "Design Justice" is an approach to design that is led by marginalized communities and that aims explicitly to challenge, rather than reproduce, structural inequalities. It has emerged from a growing community of designers in various fields who work closely with social movements and community-based organizations around the world. This book explores the theory and practice of design justice, demonstrates how universalist design principles and practices erase certain groups of people—specifically, those who are intersectionally disadvantaged or multiply burdened under the matrix of domination (white supremacist heteropatriarchy, ableism, capitalism, and settler colonialism)—and invites readers to "build a better world, a world where many worlds fit; linked worlds of collective liberation and ecological sustainability." Along the way, the book documents a multitude of real-world community-led design practices, each grounded in a particular social movement. *Design Justice* goes beyond recent calls for design for good, user-centered design, and employment diversity in the technology and design professions; it connects design to larger struggles for collective liberation and ecological survival.

Living in Denial-Kari Marie Norgaard 2011-03-11 An analysis of why people with knowledge about climate change often fail to translate that knowledge into action. Global warming is the most significant environmental issue of our time, yet public response in Western nations has been meager. Why have so few taken any action? In *Living in Denial*, sociologist Kari Norgaard searches for answers to this question, drawing on interviews and ethnographic data from her study of "Bygdaby," the fictional name of an actual rural community in western Norway, during the unusually warm winter of 2000-2001. In 2000-2001 the first snowfall came to Bygdaby two months later than usual; ice fishing was impossible; and the ski industry had to invest substantially in artificial snow-making. Stories in local and national newspapers linked the warm winter explicitly to global warming. Yet residents did not write letters to the editor, pressure politicians, or cut down on use of fossil fuels. Norgaard attributes this lack of response to the phenomenon of socially organized denial, by which information about climate science is known in the abstract but disconnected from political, social, and private life, and sees this as emblematic of how citizens of industrialized countries are responding to global warming. Norgaard finds that for the highly educated and politically savvy residents of Bygdaby, global warming was both common knowledge and unimaginable. Norgaard traces this denial through multiple levels, from emotions to cultural norms to political economy. Her report from Bygdaby, supplemented by comparisons throughout the book to the United States, tells a larger story behind our paralysis in the face of today's alarming predictions from climate scientists.

Good Economics for Hard Times-Abhijit V. Banerjee 2019-11-12 The winners of the Nobel Prize show how economics, when done right, can help us solve the thorniest social and political problems of our day. Figuring out how to deal with today's critical economic problems is perhaps the great challenge of our time. Much greater than space travel or perhaps even the next revolutionary medical breakthrough, what is at stake is the whole idea of the good life as we have known it. Immigration and inequality, globalization and technological disruption, slowing growth and accelerating climate change—these are sources of great anxiety across the world, from New Delhi and Dakar to Paris and Washington, DC. The resources to address these challenges are there—what we lack are ideas that will help us jump the wall of disagreement and distrust that divides us. If we succeed, history will remember our era with gratitude; if we fail, the potential losses are incalculable. In this revolutionary book, renowned MIT economists Abhijit V. Banerjee and Esther Duflo take on this challenge, building on cutting-edge research in economics explained with lucidity and grace. Original, provocative, and urgent, *Good Economics for Hard Times* makes a persuasive case for an intelligent interventionism and a society built on compassion and respect. It is an extraordinary achievement, one that shines a light to help us appreciate and understand our precariously balanced world.

Critical Zones-Bruno LaTour 2020-10-06 Artists and writers portray the disorientation of a world facing climate change. This monumental volume, drawn from a 2020 exhibition at the ZKM Center for Art and Media, portrays the disorientation of life in world facing climate change. It traces this disorientation to the disconnection between two different definitions of the land on which modernizing humans live: the sovereign nation from which they derive their rights, and another one, hidden, from which they gain their wealth—the land they live on, and the land they live from. Charting the land they will inhabit, they find not a globe, not the iconic "blue

marble," but a series of critical zones—patchy, heterogenous, discontinuous. With short pieces, longer essays, and more than 500 illustrations, the contributors explore the new landscape on which it may be possible for humans to land—what it means to be "on Earth," whether the critical zone, the Gaia, or the terrestrial. They consider geopolitical conflicts and tools redesigned for the new "geopolitics of life forms." The "thought exhibition" described in this book can open a fictional space to explore the new climate regime; the rest of the story is unknown. Contributors include Dipesh Chakrabarty, Pierre Charbonnier, Emanuele Coccia, Vinciane Despret, Jérôme Gailarde, Donna Haraway, Joseph Leo Koerner, Timothy Lenton, Richard Powers, Simon Schaffer, Isabelle Stengers, Bronislaw Szerszynski, Jan A. Zalasiewicz, Siegfried Zielinski Copublished with ZKM - Center for Art and Media Karlsruhe

Three Worlds of Relief-Cybelle Fox 2012-04-29 *Three Worlds of Relief* examines the role of race and immigration in the development of the American social welfare system by comparing how blacks, Mexicans, and European immigrants were treated by welfare policies during the Progressive Era and the New Deal. Taking readers from the turn of the twentieth century to the dark days of the Depression, Cybelle Fox finds that, despite rampant nativism, European immigrants received generous access to social welfare programs. The communities in which they lived invested heavily in relief. Social workers protected them from snooping immigration agents, and ensured that noncitizenship and illegal status did not prevent them from receiving the assistance they needed. But that same helping hand was not extended to Mexicans and blacks. Fox reveals, for example, how blacks were relegated to racist and degrading public assistance programs, while Mexicans who asked for assistance were deported with the help of the very social workers they turned to for aid. Drawing on a wealth of archival evidence, Fox paints a riveting portrait of how race, labor, and politics combined to create three starkly different worlds of relief. She debunks the myth that white America's immigrant ancestors pulled themselves up by their bootstraps, unlike immigrants and minorities today. *Three Worlds of Relief* challenges us to reconsider not only the historical record but also the implications of our past on contemporary debates about race, immigration, and the American welfare state.

Overload-Erin L. Kelly 2020-03-17 Why too much work and too little time is hurting workers and companies—and how a proven workplace redesign can benefit employees and the bottom line Today's ways of working are not working—even for professionals in "good" jobs. Responding to global competition and pressure from financial markets, companies are asking employees to do more with less, even as new technologies normalize 24/7 job expectations. In *Overload*, Erin Kelly and Phyllis Moen document how this new intensification of work creates chronic stress, leading to burnout, attrition, and underperformance. "Flexible" work policies and corporate lip service about "work-life balance" don't come close to fixing the problem. But this unhealthy and unsustainable situation can be changed—and *Overload* shows how. Drawing on five years of research, including hundreds of interviews with employees and managers, Kelly and Moen tell the story of a major experiment that they helped design and implement at a Fortune 500 firm. The company adopted creative and practical work redesigns that gave workers more control over how and where they worked and encouraged managers to evaluate performance in new ways. The result? Employees' health, well-being, and ability to manage their personal and work lives improved, while the company benefited from higher job satisfaction and lower turnover. And, as Kelly and Moen show, such changes can—and should—be made on a wide scale. Complete with advice about ways that employees, managers, and corporate leaders can begin to question and fix one of today's most serious workplace problems, *Overload* is an inspiring account about how rethinking and redesigning work could transform our lives and companies.

States of Dependency-Karen M. Tani 2016-03-31 This book recounts the transformation of American poor relief in the decades spanning the New Deal and the War on Poverty.

Structure and Interpretation of Computer Programs - 2nd Edition-Harold Abelson *Structure and Interpretation of Computer Programs* by Harold Abelson and Gerald Jay Sussman is licensed under a Creative Commons Attribution-NonCommercial 3.0 License.

Switch-Chip Heath 2010-02-16 Why is it so hard to make lasting changes in our companies, in our communities, and in our own lives? The primary obstacle is a conflict that's built into our brains, say Chip and Dan Heath, authors of the critically acclaimed bestseller *Made to Stick*. Psychologists have discovered that our minds are ruled by two different systems - the rational mind and the emotional mind—that compete for control. The rational mind wants a great beach body; the emotional mind wants that Oreo cookie. The rational mind wants to change something at work; the emotional mind loves the comfort of the existing routine. This tension can doom a change effort - but if it is overcome, change can come quickly. In *Switch*, the Heaths show how everyday people - employees and managers, parents and nurses - have united both minds and, as a result, achieved dramatic results: • The lowly medical interns who managed to defeat an entrenched, decades-old medical practice that was endangering patients • The home-organizing guru who developed a simple technique for overcoming the dread of housekeeping • The manager who transformed a lackadaisical customer-support team into service zealots by removing a standard tool of customer service In a compelling, story-driven narrative, the Heaths bring together decades of counterintuitive research in psychology, sociology, and other fields to shed new light on how we can effect transformative change. *Switch* shows that successful changes follow a pattern, a pattern you can use to make the changes that matter to you, whether your interest is in changing the world or changing your waistline.

Engineering Rules-JoAnne Yates 2021-03-30 *Engineering Rules* is a riveting global history of the people, processes, and organizations that created and maintain this nearly invisible infrastructure of today's economy, which is just as important as the state or the global market.

Why Nations Fail-Daron Acemoglu 2012 An award-winning professor of economics at MIT and a Harvard University political scientist and economist evaluate the reasons that some nations are poor while others succeed, outlining provocative perspectives that support theories about the importance of institutions.

The Lotus Unleashed-Robert J. Topmiller 2006-11-01 During the Vietnam War, Vietnamese Buddhist peace activists made extraordinary sacrifices -- including self-immolation -- to try to end the fighting. They hoped to establish a neutralist government that would broker peace with the Communists and expel the Americans. Robert J. Topmiller explores South Vietnamese attitudes toward the war, the insurgency, and U.S. intervention, and lays bare the dissension within the U.S. military. *The Lotus Unleashed* is one of the few studies to illuminate the impact of internal Vietnamese politics on U.S. decision-making and to examine the power of a nonviolent movement to confront a violent superpower.

The Ethics of Influence-Cass R. Sunstein 2016-08-24 In *The Ethics of Influence*, Cass R. Sunstein investigates the ethical issues surrounding government nudges, choice architecture, and mandates.

Engines of Liberty-David Cole 2016-03-29

The Art of Insight in Science and Engineering-Sanjoy Mahajan 2014-11-07 In this book, Sanjoy Mahajan shows us that the way to master complexity is through insight rather than precision. Precision can overwhelm us with information, whereas insight connects seemingly disparate pieces of information into a simple picture. Unlike computers, humans depend on insight. Based on the author's fifteen years of teaching at MIT, Cambridge University, and Olin College, *The Art of Insight in Science and Engineering* shows us how to build insight and find understanding, giving readers tools to help them solve any problem in science and engineering. To master complexity, we can organize it or discard it. *The Art of Insight in Science and Engineering* first teaches the tools for organizing complexity, then distinguishes the two paths for discarding complexity: with and without loss of information. Questions and problems throughout the text help readers master and apply these groups of tools. Armed with this three-part toolchest, and without complicated mathematics, readers can estimate the flight range of birds and planes and the strength of chemical bonds, understand the physics of pianos and xylophones, and explain why skies are blue and sunsets are red.*The Art of Insight in Science and Engineering* will appear in print and online under a Creative Commons Noncommercial Share Alike license.

Digital Cosmopolitans: Why We Think the Internet Connects Us, Why It Doesn't, and How to Rewire It-Ethan Zuckerman 2013-06-17 "One of our most important books on globalization." —Steve O'Keefe, *New York Journal of Books* The enormous scope of the Internet can lead us to assume that as the online community grows, our world grows smaller and more cosmopolitan. In *Digital Cosmopolitans*, Ethan Zuckerman explains why the technological ability to communicate with someone does not guarantee human interaction or the healthy exchange of information and ideas. Combining the latest psychological and sociological research with current trends both online and off, *Digital Cosmopolitans* highlights the challenges we face and the headway being made in creating a world that is truly connected.

MIT and the Rise of Entrepreneurial Science-Henry Etzkowitz 2003-08-27 *MIT and the Rise of Entrepreneurial Science* is a timely and authoritative book that analyses the transformation of the university's role in society as an expanded one involving economic and social development as well as teaching and research. The Massachusetts Institute of Technology invented the format for university-industry relations that has been copied all over America and latterly the rest of the world. This excellent book shows that the ground-breaking university-industry-government interactions have become one of the foundations of modern successful economies.

From Poverty to Power-Duncan Green 2008 Offers a look at the causes and effects of poverty and inequality, as well as the possible solutions. This title features research, human stories, statistics, and compelling arguments. It discusses about the world we live in and how we can make it a better place.

Objective Becoming-Bradford Skow 2015-01-29 Bradford Skow presents an original defense of the 'block universe' theory of time, often said to be a theory according to which time does not pass. Along the way, he provides in-depth discussions of alternative theories of time, including those in which there is 'robust passage' of time or 'objective becoming': presentism, the moving spotlight theory of time, the growing block theory of time, and the 'branching time' theory of time. Skow explains why the moving spotlight theory is the best of these arguments, and rebuts several popular arguments against the thesis that time passes. He surveys the problems that the special theory of relativity has been thought to raise for objective becoming, and suggests ways in which fans of objective becoming may reconcile their view with relativistic physics. The last third of the book aims to clarify and evaluate the argument that we should believe that time passes because, somehow, the passage of time is given to us in experience. He isolates three separate arguments this idea suggests, and explains why they fail.

Step Up, Step Back-Elsbeth Johnson 2020-02-20 Many strategic change efforts fail. And virtually all of them are harder than they need to be. Why is this? And what can we do to make change more likely to stick? Dr. Elsbeth Johnson, a former equity analyst and London Business School Professor now teaching at MIT, has spent a decade researching how to deliver strategic change in practice. Based on asking managers what they needed from leaders, rather than just asking leaders what they did, her resulting *Step Up, Step Back* approach challenges some of our most fundamental beliefs about how to lead change - and indeed, about what we even consider to be 'leadership'. The *Step Up, Step Back* approach suggests leaders need to step up and do more than they typically do in the early stages of the change - in specific ways and at specific times; and then step back and do less than they typically do in the later stages of the change - again, in specific ways, at specific times. The result is not only change that sticks, but empowered, motivated managers who can get on with delivering change, without needing ongoing input or cover from leaders. Using real-world examples of how to apply the science in practice, *Step Up, Step Back* gives you a roadmap for how to deliver strategic change in your organization.

Countings-Joel Segel 2009-01-03 This book traces the history of the MIT Department of Mathematics-one of the most important mathematics departments in the world-through candid, in-depth, lively conversations with a select and diverse group of its senior members. The process reveals much about the motivation, path, and impact of research mathematicians in a society that owes so mu

Reclaiming Conversation-Sherry Turkle 2015 An engaging look at how technology is undermining our creativity and relationships and how face-to-face conversation can help us get it back.

University-Industry Partnerships in MIT, Cambridge, and Tokyo-Sachi Hatakenaka 2004-08-02 The purpose of this study is to identify the nature of change taking place in university-industry partnerships, to understand the underlying factors that influence that change, and to explore the underlying process of change. Three in-depth case studies are considered, that of MIT, Cambridge University, and Tokyo University, to compare their experiences in developing new types of university-industry relationships. Hatakenaka argues that internal and external organizational boundaries have influenced the evolution of the new types of relationships, and that the three universities have defined these boundaries differently.

Photonic Crystals-John D. Joannopoulos 2011-10-30 Since it was first published in 1995, *Photonic Crystals* has remained the definitive text for both undergraduates and researchers on photonic band-gap materials and their use in controlling the propagation of light. This newly expanded and revised edition covers the latest developments in the field, providing the most up-to-date, concise, and comprehensive book available on these novel materials and their applications. Starting from Maxwell's equations and Fourier analysis, the authors develop the theoretical tools of photonics using principles of linear algebra and symmetry, emphasizing analogies with traditional solid-state physics and quantum theory. They then investigate the unique phenomena that take place within photonic crystals at defect sites and surfaces, from one to three dimensions. This new edition includes entirely new chapters describing important hybrid structures that use band gaps or periodicity only in some directions: periodic waveguides, photonic-crystal slabs, and photonic-crystal fibers. The authors demonstrate how the capabilities of photonic crystals to localize light can be put to work in devices such as filters and splitters. A new appendix provides an overview of computational methods for electromagnetism. Existing chapters have been considerably updated and expanded to include many new three-dimensional photonic crystals, an extensive tutorial on device design using temporal coupled-mode theory, discussions of diffraction and refraction at crystal interfaces, and more. Richly illustrated and accessibly written, *Photonic Crystals* is an indispensable resource for students and researchers. Extensively revised and expanded Features improved graphics throughout Includes new chapters on photonic-crystal fibers and combined index-and-band-gap-guiding Provides an introduction to coupled-mode theory as a powerful tool for device design Covers many new topics, including omnidirectional reflection, anomalous refraction and diffraction, computational photonics, and much more.

Beyond the Known-Andrew Rader 2020-11-17 From brilliant young polymath Andrew Rader—an MIT-credentialed scientist, popular podcast host, and SpaceX mission manager—an "engaging" (Tim Marshall, *New York Times* bestselling author) chronicle showcasing our human desire to continually explore new and uncharted territory, from civilization's earliest days to interstellar travel. For the first time in history, the human species has the technology to destroy itself. But having developed that power, humans are also able to leave Earth and voyage into the vastness of space. After millions of years of evolution, we've arrived at the point where we can settle other worlds and begin the process of becoming multi-planetary. How did we get here? What does the future hold for us? Divided into four accessible sections, *Beyond the Known* examines major periods of discovery and rediscovery, from Classical Times, when Phoenicians, Persians, and Greeks ventured forth; to the Age of European Exploration, which saw colonies sprout on nearly every continent; to the Era of Scientific Inquiry, when researchers developed new tools for mapping and traveling farther; to Our Spacefaring Future, which unveils plans currently underway for settling other planets and, eventually, traveling to the stars. A Mission

Manager at SpaceX with a lively voice, Andrew Rader is at the forefront of space exploration. As a gifted historian, Rader, who has won global acclaim for his stunning breadth of knowledge, is singularly positioned to reveal the story of human exploration that is also the story of scientific achievement. Told with an infectious zeal for traveling seeking new horizons, *Beyond the Known* is “an astute—and highly flattering—view of human aspirations” (Kirkus Reviews).

Players Unleashed!-Tanja Sihvonen 2011 A compelling examination of the the practice and implications of modding as they apply to the bestselling computer game *The Sims*.

The City of Tomorrow-Carlo Ratti 2016-06-28 Since cities emerged ten thousand years ago, they have become one of the most impressive artifacts of humanity. But their evolution has been anything but linear—cities have gone through moments of radical change, turning points that redefine their very essence. In this book, a renowned architect and urban planner who studies the intersection of cities and technology argues that we are in such a moment. The authors explain some of the forces behind urban change and offer new visions of the many possibilities for tomorrow’s city. Pervasive digital systems that layer our cities are transforming urban life. The authors provide a front-row seat to this change. Their work at the MIT Senseable City Laboratory allows experimentation and implementation of a variety of urban initiatives and concepts, from assistive condition-monitoring bicycles to trash with embedded tracking sensors, from mobility to energy, from participation to production. They call for a new approach to envisioning cities: futurecraft, a symbiotic development of urban ideas by designers and the public. With such participation, we can collectively imagine, examine, choose, and shape the most desirable future of our cities.

The Big Ones-Lucy Jones 2019-03-19 By the world-renowned seismologist, a riveting history of natural disasters, their impact on our culture, and new ways of thinking about the ones to come Earthquakes, floods, tsunamis, hurricanes, volcanoes—they stem from the same forces that give our planet life. Earthquakes give us natural springs; volcanoes produce fertile soil. It is only when these forces exceed our ability to withstand them that they become disasters. Together they have shaped our cities and their architecture; elevated leaders and toppled governments; influenced the way we think, feel, fight, unite, and pray. The history of natural disasters is a history of ourselves. In *The Big Ones*, leading seismologist Dr. Lucy Jones offers a bracing look at some of the world’s greatest natural disasters, whose reverberations we continue to feel today. At Pompeii, Jones explores how a volcanic eruption in the first century AD challenged prevailing views of religion. She examines the California floods of 1862 and the limits of human memory. And she probes more recent events—such as the Indian Ocean tsunami of 2004 and the American hurricanes

of 2017—to illustrate the potential for globalization to humanize and heal. With population in hazardous regions growing and temperatures around the world rising, the impacts of natural disasters are greater than ever before. *The Big Ones* is more than just a work of history or science; it is a call to action. Natural hazards are inevitable; human catastrophes are not. With this energizing and exhaustively researched book, Dr. Jones offers a look at our past, readying us to face down the Big Ones in our future.

Digitally Enabled Social Change-Jennifer Earl 2011 An investigation into how specific Web technologies can change the dynamics of organizing and participating in political and social protest.

Picturing the Wolf in Children’s Literature-Debra Mitts-Smith 2012-12-06 From the villainous beast of “Little Red Riding Hood” and “The Three Little Pigs,” to the nurturing wolves of Romulus and Remus and Rudyard Kipling’s *The Jungle Book*, the wolf has long been a part of the landscape of children’s literature. Meanwhile, since the 1960s and the popularization of scientific research on these animals, children’s books have begun to feature more nuanced views. In *Picturing the Wolf in Children’s Literature*, Mitts-Smith analyzes visual images of the wolf in children’s books published in Western Europe and North America from 1500 to the present. In particular, she considers how wolves are depicted in and across particular works, the values and attitudes that inform these depictions, and how the concept of the wolf has changed over time. What she discovers is that illustrations and photos in works for children impart social, cultural, and scientific information not only about wolves, but also about humans and human behavior. First encountered in childhood, picture books act as a training ground where the young learn both how to decode the “symbolic” wolf across various contexts and how to make sense of “real” wolves. Mitts-Smith studies sources including myths, legends, fables, folk and fairy tales, fractured tales, fictional stories, and nonfiction, highlighting those instances in which images play a major role, including illustrated anthologies, chapbooks, picture books, and informational books. This book will be of interest to children’s literature scholars, as well as those interested in the figure of the wolf and how it has been informed over time.