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Early in the twenty-first century, a quiet revolution occurred. For the first time, the major developed economies began to invest more in intangible assets, like design, branding, and software, than in tangible assets, like machinery, buildings, and computers. For all sorts of businesses, the ability to deploy assets that one can neither see nor touch is increasingly the main source of long-term success. But this is not just a familiar story of the so-called new economy. Capitalism without Capital shows that the growing importance of intangible assets has also played a role in some of the larger economic changes of the past decade, including the growth in economic inequality and the stagnation of productivity. Jonathan Haskel and Stian Westlake explore the unusual economic characteristics of intangible investment and discuss how an economy rich in intangibles is fundamentally different from one based on tangibles. Capitalism without Capital concludes by outlining how managers, investors, and policymakers can exploit the characteristics of an intangible age to grow their businesses, portfolios, and economies. This book argues that the new actors in global health constitute a 'private turn' in global health governance, and provides theoretical and practical grounds for viewing global health partnerships and philanthropic foundations as closely aligned in their ideational and material approaches to a range of important issues and crises. The #1 New York Times bestseller that has all America talking—with a new afterword on expanding your range—as seen on CNN's Fareed Zakaria GPS, Morning Joe, CBS This Morning, and more. “The most important business—and parenting—book of the year.” —Forbes “Urgent and important. . . an essential read for bosses, parents, coaches, and anyone who cares about improving performance.” —Daniel H. Pink Shortlisted for the Financial Times/McKinsey Business Book of the Year Award Plenty of experts argue that anyone who wants to develop a skill, play an instrument, or lead their field should start early, focus intensely, and rack up as many hours of deliberate practice as possible. If you dabble or delay, you'll never catch up to the people who got a head start. But a closer look at research on the world's top performers, from professional athletes to Nobel laureates, shows that early specialization is the exception, not the rule. David Epstein examined the world's most successful athletes, artists, musicians, inventors, forecasters and scientists. He discovered that in most fields—especially those that are complex and unpredictable—generalists, not specialists, are primed to excel. Generalists often find their path late, and they juggle many interests rather than focusing on one. They're also more creative, more agile, and able to make connections their more specialized peers can't see. Provocative, rigorous, and engrossing, Range makes a compelling case for actively cultivating inefficiency. Failing a test is the best way to learn. Frequent quitters end up with the most fulfilling careers. The most impactful inventors cross domains rather than deepening their knowledge in a single area. As experts silo themselves further while computers master more of the skills once reserved for highly focused humans, people who think broadly and embrace diverse experiences and perspectives will increasingly thrive. Revised and updated, this second edition of Design of Hydraulic Gates maintains the same goal as the original: to be used as a textbook and a manual of design of gates, presenting the main aspects of design, manufacture, installation and operation of hydraulic gates, while introducing new products, technologies and calculation procedures. This edit Over the past decade, a small revolution has taken place at some of the world's leading universities, as they have started to provide free access to undergraduate course materials—including syllabi, assignments, and lectures—to anyone with an Internet connection. Yale offers high-quality audio and video recordings of a careful selection of popular lectures, MIT supplies digital materials for nearly all of its courses, Carnegie Mellon boasts a purpose-built interactive learning environment, and some of the most selective universities in India have created a vast body of online content in order to reach more of the country's exploding student population. Although they don't offer online credit or degrees, efforts like these are beginning to open up elite institutions—and may foreshadow significant changes in the way all universities approach teaching and learning. Unlocking the Gates is one of the first books to examine this important development. Drawing on a wide range of sources, including extensive interviews with university leaders, Taylor Walsh traces the evolution of these online courseware projects and considers the impact they may have, both inside elite universities and beyond. As economic constraints and concerns over access demand more efficient and creative teaching models, these early initiatives may lead to more substantial innovations in how education is delivered and consumed—even at the best institutions. Unlocking the Gates tells an important story about this form of online learning—and what it might mean for the future of higher education. NEW YORK TIMES BESTSELLER “In her book, Melinda tells the stories of the inspiring people she's met through her work all over the world, digs into the data, and powerfully illustrates issues that need our attention—from child marriage to gender inequity in the workplace.” — President Barack Obama “The Moment of Lift is an urgent call to courage. It changed how I think about myself, my family, my work, and what's possible in the world. Melinda weaves together vulnerable, brave storytelling and compelling data to make this one of those rare books that you carry in your heart and mind long after the last page.” — Brené Brown, Ph.D., author of the New York Times #1 bestseller Dare to Lead “Melinda Gates has spent many years working with women around the world. This book is an urgent manifesto for an equal society where women are valued and recognized in all spheres of life. Most of all, it is a call for unity, inclusion and connection. We need this message more than ever.” — Malala Yousafzai "Melinda Gates's book is a lesson in listening. A powerful, poignant, and ultimately humble call to arms." — Tara Westover, author of the New York Times #1 bestseller Educated A debut from Melinda Gates, a timely and necessary call to action for women's empowerment. “How can we summon a moment of lift for human beings – and especially for women? Because when you lift up women, you lift up humanity.” For the last twenty years, Melinda Gates has been on a mission to find solutions for people with the most urgent needs, wherever they live. Throughout this journey, one thing has become increasingly clear to her: If you want to lift a society up, you need to stop keeping women down. In this moving and compelling book, Melinda shares lessons she's learned from the inspiring people she's met during her work and travels around the world. As she writes in the introduction, “That is why I had to write this book—to share the stories of people who have given focus and urgency to my life. I want all of us to see ways we can lift women up where we live.” Melinda's unforgettable narrative is backed by startling data as she presents the issues that most need our attention—from child marriage to lack of access to contraceptives to gender inequity in the workplace. And, for the first time, she writes about her personal life and the road to equality in her own marriage. Throughout, she shows how there has never been more opportunity to change the world—and ourselves. Writing with emotion, candor, and grace, she introduces us to remarkable women and shows the power of connecting with one another. When we lift others up, they lift us up, too. Chronicles the career of "Chairman Bill" Gates, the computer whiz kid who commands the powerful Microsoft computer software empire. From the former secretary of defense, a strikingly candid, vivid account of serving Presidents George W. Bush and Barack Obama during the wars in Iraq and Afghanistan. When Robert M. Gates received a call from the White House, he thought he'd long left Washington politics behind: After working for six presidents in both the CIA and the National Security Council, he was happily serving as president of Texas A&M University. But when he was asked to help a nation mired in two wars and to aid the troops doing the fighting, he answered what he felt was the call of duty. This textbook for a one-semester course in Digital Systems Design describes the basic methods used to develop “traditional” Digital Systems, based on the use of logic gates and flip flops, as well as more advanced techniques that enable the design of very large circuits, based on Hardware Description Languages and Synthesis tools. It was originally designed to accompany a MOOC (Massive Open Online Course) created at the Autonomous University of Barcelona (UAB), currently available on the Coursera platform. Readers will learn what a digital system is and how it can be developed, preparing them for steps toward other technical disciplines, such as Computer Architecture, Robotics, Bionics, Avionics and others. In particular, students will learn to design digital systems of medium complexity, describe digital systems using high level hardware description languages, and understand the operation of computers at their most basic level. All concepts introduced are reinforced by plentiful illustrations, examples, exercises, and applications. For example, as an applied example of the design techniques presented, the authors demonstrate the synthesis of a simple processor, leaving the student in a position to enter the world of Computer Architecture and Embedded Systems. Based on the author's extensive practical experience, this new edition will act as a definitive reference work on gates and valves. Hydraulic gates and valves in free surface flow and submerged outlets: 2nd edition will provide you with a comprehensive overview of the subject and clearly describes the principle options available to engineers and designers and outlines the main advantages and disadvantages of all hydraulic gates and valves, highlighting potential problems in their use. This fully revised edition includes: Information about new types of water-operated automatic gates, rolling weir gates, fuse gates and an extended part on barrier gates and their details The sections on seals, the trunnions of radial gates, ice formation, gate operation and structural design have all been expanded New sections on hazard and reliability of gates, earthquake effects on gates and operating machinery, environmental impact and aesthetics, as well as maintenance An appendix on the calculation of hydrostatic loads on radial gates has been set out Hydraulic gates and valves in free surface flow and submerged outlets: 2nd edition will be of great benefit to engineers who work or design project Discover the science of biocomputing with this comprehensive and forward-looking new resource DNA- and RNA-Based Computing Systems delivers an authoritative overview of DNA- and RNA-based biocomputing systems that touches on cutting-edge advancements in computer science, biotechnology, nanotechnology, and materials science. Accomplished researcher, academic, and author Evgeny Katz offers readers an examination of the intersection of computational, chemical, materials, and engineering aspects of biomolecular information processing. A perfect companion to the recently published Enzyme-Based Computing by the same editor, the book is an authoritative reference for those who hope to better understand DNA- and RNA-based logic gates, multi-component logic networks, combinatorial calculators, and related computational systems that have recently been developed for use in biocomputing devices. DNA- and RNA-Based Computing Systems summarizes the latest research efforts in this rapidly evolving field and points to possible future research foci. Along with an examination of potential applications in biosensing and bioactuation, particularly in the field of biomedicine, the book also includes topics like: A thorough introduction to the fields of DNA and RNA computing, including DNA/enzyme circuits A description of DNA logic gates, switches and circuits, and how to program them An introduction to photonic logic using DNA and RNA The development and applications of DNA computing for use in databases and robotics Perfect for biochemists, biotechnologists, materials scientists, and bioengineers, DNA- and RNA-Based Computing Systems also belongs on the bookshelves of computer technologists and electrical engineers who seek to improve their understanding of biomolecular information processing. Senior undergraduate students and graduate students in biochemistry, materials science, and computer science will also benefit from this book. Lock Gates and Other Closures in Hydraulic Projects shares the authors practical experience in design, engineering, management and other relevant aspects with regard to hydraulic gate projects. This valuable reference on the

design, construction, operation and maintenance of navigation lock gates, movable closures of weirs, flood barriers, and gates for harbor and shipyard docks provides systematic coverage on all structural types of hydraulic gates, the selection of gate types, and their advantages and disadvantages. The discussion includes the latest views in new domains, such as environmental impact of hydraulic gate projects, sustainability assessments, relation with the issues of global climate change, handling accidents and calamities, and the bases of asset management. Heavily illustrated, this reference provides a generous amount of case studies based on the author's own and their colleagues' experiences from recent projects in Europe, America and other continents. Presents extensive coverage of the operational profiles of hydraulic closures, including gates in navigation locks, movable closures on river weirs, closures of flood barriers, spillway closures and valves, and more Outlines the different structural types of hydraulic gates, including miter gates, vertical lift gates, flap and hinged crest gates, radial gates, rolling and barge gates, sector gates and many other Clearly outlines the selection process for gates for navigation locks, river weirs, flood barriers, hydroelectric plants, shipyard docks and other hydraulic structures Provides comprehensive discussion of design loads and other actions to which hydraulic gates may be subjected during their service life, followed by an overview of analysis methods and tools Addresses the newest challenges and concerns in hydraulic gate projects, such as environmental impact of hydraulic gate projects, risk-based design, sustainability issues, handling accidents and calamities, and gate maintenance in view of asset management Presents the experiences from many recent projects in Europe and America, including the rolling gates in large European sea locks, gates in the Panama Canal new locks, flood barriers in New Orleans and the Netherlands "Sleep is one of the most important but least understood aspects of our life, wellness, and longevity ... An explosion of scientific discoveries in the last twenty years has shed new light on this fundamental aspect of our lives. Now ... neuroscientist and sleep expert Matthew Walker gives us a new understanding of the vital importance of sleep and dreaming"--Amazon.com. Who controls the media today? There are many media systems across the globe that claim to be free yet whose independence has been eroded. As demagogues rise, independent voices have been squeezed out. Corporate-owned media companies that act in the service of power increasingly exercise soft censorship. Tech giants such as Facebook and Google have dramatically changed how people access information, with consequences that are only beginning to be felt. This book features pathbreaking analysis from journalists and academics of the changing nature and peril of media capture—how formerly independent institutions fall under the sway of governments, plutocrats, and corporations. Contributors including Emily Bell, Felix Salmon, Joshua Marshall, Joel Simon, and Nikki Usher analyze diverse cases of media capture worldwide—from the United Kingdom to Turkey to India and beyond—many drawn from firsthand experience. They examine the role played by new media companies and funders, showing how the confluence of the growth of big tech and falling revenues for legacy media has led to new forms of control. Contributions also shed light on how the rise of right-wing populists has catalyzed the crisis of global media. They also chart a way forward, exploring the growing need for a policy response and sustainable models for public-interest investigative journalism. Providing valuable insight into today's urgent threats to media independence, *Media Capture* is essential reading for anyone concerned with defending press freedom in the digital age. INSTANT NEW YORK TIMES BESTSELLER "One of the most important books I've ever read—an indispensable guide to thinking clearly about the world." – Bill Gates "Hans Rosling tells the story of 'the secret silent miracle of human progress' as only he can. But *Factfulness* does much more than that. It also explains why progress is so often secret and silent and teaches readers how to see it clearly." —Melinda Gates "Factfulness by Hans Rosling, an outstanding international public health expert, is a hopeful book about the potential for human progress when we work off facts rather than our inherent biases." - Former U.S. President Barack Obama *Factfulness*: The stress-reducing habit of only carrying opinions for which you have strong supporting facts. When asked simple questions about global trends—what percentage of the world's population live in poverty; why the world's population is increasing; how many girls finish school—we systematically get the answers wrong. So wrong that a chimpanzee choosing answers at random will consistently outguess teachers, journalists, Nobel laureates, and investment bankers. In *Factfulness*, Professor of International Health and global TED phenomenon Hans Rosling, together with his two long-time collaborators, Anna and Ola, offers a radical new explanation of why this happens. They reveal the ten instincts that distort our perspective—from our tendency to divide the world into two camps (usually some version of us and them) to the way we consume media (where fear rules) to how we perceive progress (believing that most things are getting worse). Our problem is that we don't know what we don't know, and even our guesses are informed by unconscious and predictable biases. It turns out that the world, for all its imperfections, is in a much better state than we might think. That doesn't mean there aren't real concerns. But when we worry about everything all the time instead of embracing a worldview based on facts, we can lose our ability to focus on the things that threaten us most. Inspiring and revelatory, filled with lively anecdotes and moving stories, *Factfulness* is an urgent and essential book that will change the way you see the world and empower you to respond to the crises and opportunities of the future. --- "This book is my last battle in my life-long mission to fight devastating ignorance...Previously I armed myself with huge data sets, eye-opening software, an energetic learning style and a Swedish bayonet for sword-swallowing. It wasn't enough. But I hope this book will be." Hans Rosling, February 2017. A fascinating deep dive on innovation from the New York Times bestselling author of *How We Got To Now* and *Unexpected Life* The printing press, the pencil, the flush toilet, the battery--these are all great ideas. But where do they come from? What kind of environment breeds them? What sparks the flash of brilliance? How do we generate the breakthrough technologies that push forward our lives, our society, our culture? Steven Johnson's answers are revelatory as he identifies the seven key patterns behind genuine innovation, and traces them across time and disciplines. From Darwin and Freud to the halls of Google and Apple, Johnson investigates the innovation hubs throughout modern time and pulls out the approaches and commonalities that seem to appear at moments of originality. Essay from the year 2009 in the subject Computer Science - Internet, New Technologies, grade: A, , language: English, abstract: The following essay is a nine page paper regarding Bill Gates, who is considered the most powerful change agents of the century for information technology. It follows Gates' career with Microsoft from beginning beyond, along with his philanthropy which is going beyond just mere 'helping'. This book constitutes the refereed proceedings of the 17th International Symposium on VLSI Design and Test, VDAT 2013, held in Jaipur, India, in July 2013. The 44 papers presented were carefully reviewed and selected from 162 submissions. The papers discuss the frontiers of design and test of VLSI components, circuits and systems. They are organized in topical sections on VLSI design, testing and verification, embedded systems, emerging technology. Bill Gates – The Story This book, the first biography on Bill Gates, has been adapted and published in many countries around the world: The USA, China, Japan, India, South Korea, Israel, Hungary ... It was completely updated in 2020. Long hailed as a technological prodigy, Bill Gates conquered the world with his software programs. When he had become the wealthiest man on the planet, the U.S. government expressed serious concerns about Microsoft's "abuse of dominance". During the 2000's, Bill Gates became a philanthropist. He is convinced that he has saved millions of lives, particularly in Africa. However, he is the subject of a thousand controversies. This book, which was updated in 2020, strives to give all the information needed to understand what drives this extraordinary personality. Bill Gates and the Saga of Microsoft tells the story of the youth of a gifted man named Bill Gates who became a champion of computers in high school, created Microsoft as soon as the first microcomputer appeared, and showed an incredible ability to seize opportunities and to exploit them relentlessly. And how, starting from scratch, he became the richest man in the USA and then in the world. We follow Gates through a thousand twists and turns: • How does a 21-year-old manage to persuade the titan of IBM to do business with him? • The desert crossing of Windows over 7 years. • How Gates managed to impose himself on the vast majority of the planet, with a mixture of genius and questionable monopolistic maneuvers. • Why the U.S. government accused him of abuse of dominance. • His gradual conversion to humanitarian work, with choices that may have come as a surprise. This book was originally written by Daniel Ichbiah when he was a journalist specializing in new technologies Examines America's history of immigration pressures, policy debates, and choices. From the former secretary of defense and author of the acclaimed #1 bestselling memoir, *Duty*, a candid, sweeping examination of power, and how it has been exercised, for good and bad, by American presidents in the post-Cold War world. Since the end of the Cold War, the global perception of the United States has progressively morphed from dominant international leader to disorganized entity. Robert Gates argues that this transformation is the result of the failure of political leaders to understand the complexity of American power, its expansiveness and its limitations. He makes clear that the successful exercise of power is not limited to the ability to coerce or demand submission, but must also encompass diplomacy, strategic communications, development assistance, intelligence, technology, and ideology. With forthright judgments of the performance of past presidents and their senior-most advisers, insightful firsthand knowledge, and compelling insider stories, Gates's candid, sweeping examination of power in all its manifestations argues that U.S. national security in the future will require abiding by the lessons of the past, reimagining our approach, and revitalizing nonmilitary instruments of power essential to success and security. From the author of the #1 New York Times best seller *How to Avoid a Climate Disaster: The COVID-19 pandemic isn't over, but even as governments around the world strive to put it behind us, they're also starting to talk about what happens next. How can we prevent a new pandemic from killing millions of people and devastating the global economy? Can we even hope to accomplish this? Bill Gates believes the answer is yes, and in this book he lays out clearly and convincingly what the world should have learned from COVID-19 and what all of us can do to ward off another disaster like it. Relying on the shared knowledge of the world's foremost experts and on his own experience of combating fatal diseases through the Gates Foundation, he first helps us understand the science of infectious diseases. Then he shows us how the nations of the world, working in conjunction with one another and with the private sector, can not only ward off another COVID-like catastrophe but also eliminate all respiratory diseases, including the flu. Here is a clarion call—strong, comprehensive, and of the gravest importance—from one of our greatest and most effective thinkers and activists. Hydraulic gates are utilized in multiple capacities in modern society. As such, the failure of these gates can have disastrous consequences, and it is imperative to develop new methods to avoid these occurrences. *Dynamic Stability of Hydraulic Gates and Engineering for Flood Prevention* is a critical reference source containing scholarly research on engineering techniques and mechanisms to decrease the failure rate of hydraulic gates. Including a range of perspectives on topics such as fluid dynamics, vibration mechanisms, and flow stability, this book is ideally designed for researchers, academics, engineers, graduate students, and practitioners interested in the study of hydraulic gate structure. "Stony the Road presents a bracing alternative to Trump-era white nationalism. . . . In our current politics we recognize African-American history—the spot under our country's rug where the terrorism and injustices of white supremacy are habitually swept. *Stony the Road* lifts the rug." —Nell Irvin Painter, *New York Times Book Review* A profound new rendering of the struggle by African-Americans for equality after the Civil War and the violent counter-revolution that resubjugated them, by the bestselling author of *The Black Church*. The abolition of slavery in the aftermath of the Civil War is a familiar story, as is the civil rights revolution that transformed the nation after World War II. But the century in between remains a mystery: if emancipation sparked "a new birth of freedom" in Lincoln's America, why was it necessary to march in Martin Luther King, Jr.'s America? In this new book, Henry Louis Gates, Jr., one of our leading chroniclers of the African-American experience, seeks to answer that question in a history that moves from the Reconstruction Era to the "nadir" of the African-American experience under Jim Crow, through to World War I and the Harlem Renaissance. Through his close reading of the visual culture of this tragic era, Gates reveals the many faces of Jim Crow and how, together, they reinforced a stark color line between white and black Americans. Bringing a lifetime of wisdom to bear as a scholar, filmmaker, and public intellectual, Gates uncovers the roots of structural racism in our own time, while showing how African Americans after slavery combatted it by articulating a vision of a "New Negro" to force the nation to recognize their humanity and unique contributions to America as it hurtled toward the modern age. The story Gates tells begins with great hope, with the Emancipation Proclamation, Union victory, and the liberation of nearly 4 million enslaved African-Americans. Until 1877, the federal government, goaded by the activism of Frederick Douglass and many others, tried at various turns to sustain their new rights. But the terror unleashed by white paramilitary groups in the former Confederacy, combined with deteriorating economic conditions and a loss of Northern will, restored "home rule" to the South. The retreat from Reconstruction was followed by one of the most violent periods in our history, with thousands of black people murdered or lynched and many more afflicted by the degrading impositions of Jim Crow segregation. An essential tour through one of America's fundamental historical tragedies, *Stony the Road* is also a story of heroic resistance, as figures such as W. E. B. Du Bois and Ida B. Wells fought to create a counter-narrative, and culture, inside the lion's mouth. As*

sobering as this tale is, it also has within it the inspiration that comes with encountering the hopes our ancestors advanced against the longest odds. #1 NEW YORK TIMES BEST SELLER • In this urgent, authoritative book, Bill Gates sets out a wide-ranging, practical—and accessible—plan for how the world can get to zero greenhouse gas emissions in time to avoid a climate catastrophe. Bill Gates has spent a decade investigating the causes and effects of climate change. With the help of experts in the fields of physics, chemistry, biology, engineering, political science, and finance, he has focused on what must be done in order to stop the planet's slide to certain environmental disaster. In this book, he not only explains why we need to work toward net-zero emissions of greenhouse gases, but also details what we need to do to achieve this profoundly important goal. He gives us a clear-eyed description of the challenges we face. Drawing on his understanding of innovation and what it takes to get new ideas into the market, he describes the areas in which technology is already helping to reduce emissions, where and how the current technology can be made to function more effectively, where breakthrough technologies are needed, and who is working on these essential innovations. Finally, he lays out a concrete, practical plan for achieving the goal of zero emissions—suggesting not only policies that governments should adopt, but what we as individuals can do to keep our government, our employers, and ourselves accountable in this crucial enterprise. As Bill Gates makes clear, achieving zero emissions will not be simple or easy to do, but if we follow the plan he sets out here, it is a goal firmly within our reach. International Conference on Inventive Computing and Informatics (ICICI 2017) is being organized on November 23-24, 2017 by the Ranganathan Engineering College ICICI 2017 will provide an outstanding international forum for sharing knowledge and results in all fields of science, engineering and Technology ICICI provides quality key experts who provide an opportunity in bringing up innovative ideas Recent updates in the field of technology will be a platform for the upcoming researchers The cofounder of Microsoft, Bill Gates helped transform society by ushering in the era of ubiquitous personal computing. This book examines the life and achievements of this standout American inventor and philanthropist. Bill Gates has been instrumental in creating and developing the home computing era that has thoroughly transformed nearly every aspect of our lives, from work to commerce to communication. Stepping down as CEO of Microsoft in 2000 after 25 years at the helm, he remained as chairman, a position he still holds. This book paints a vivid picture of Bill Gates that covers his early life and his years as an inquisitive and adventurous student to his experiences as a budding entrepreneur and billionaire philanthropist who has often been listed among the richest individuals in the world. Author Michael Beecraft presents complete information on how Microsoft evolved, from the company's inception until Gates's departure from active leadership; documents the economic, ethical, financial, legal, management, and leadership applications inherent in Gates's work; and examines the criticism that Gates's actions and decisions have drawn throughout his career. • Provides a balanced and unbiased account of Bill Gates that includes his own writings as well as criticisms of Gates's management style that allows readers to reach their own conclusions • Documents Gates's philanthropic activities and commitment to dispersing some of his accumulated wealth to help those in need worldwide • Includes images, timelines, and charts and graphs that enrich the reading experience as well as an extensive bibliography that provides researchers with easy access to original source documents A scholarly primer by the Harvard University intellectual and author of the American Book Award-winning *The Signifying Monkey* collects three decades of his writings in a range of fields, in a volume that also offers insight into his achievements as a historian, theorist and cultural critic. How much further should the affluent world push its material consumption? Does relative dematerialization lead to absolute decline in demand for materials? These and many other questions are discussed and answered in *Making the Modern World: Materials and Dematerialization*. Over the course of time, the modern world has become dependent on unprecedented flows of materials. Now even the most efficient production processes and the highest practical rates of recycling may not be enough to result in dematerialization rates that would be high enough to negate the rising demand for materials generated by continuing population growth and rising standards of living. This book explores the costs of this dependence and the potential for substantial dematerialization of modern economies. *Making the Modern World: Materials and Dematerialization* considers the principal materials used throughout history, from wood and stone, through to metals, alloys, plastics and silicon, describing their extraction and production. Biofortification - the enrichment of staple food crops with essential micronutrients - has been heralded as a uniquely sustainable solution to the problem of micronutrient deficiency or 'hidden hunger'. Considerable attention and resources are being directed towards the biofortification of rice - the world's most important food crop. Through an in-depth analysis of international rice biofortification efforts across the US, Philippines and China, this book provides an important critique of such goal-oriented, top-down approaches. These approaches, the author argues, exemplify a model of global, 'public goods' science that is emerging within complex, international research networks. It provides vital lessons for those researching and making decisions about science and research policy, showing that if this model becomes entrenched, it is likely to channel resources towards the search for 'silver bullet' solutions at the expense of more incremental approaches that respond to locality, diversity and the complex and uncertain interactions between people and their environments. The author proposes a series of key changes to institutions and practices that might allow more context-responsive alternatives to emerge. These issues are particularly important now as increasing concerns over food security are leading donors and policy makers to commit to ambitious visions of 'impact at scale' - visions which may never become a reality and may preclude more effective pathways from being pursued. Published in association with the Economic and Social Research Council (ESRC) This study highlights the contributions of the great philosopher-talmudist Moses Maimonides to the rationalist, "plain sense" (peshat) tradition of Jewish Bible exegesis, assessing his place in the Geonic-Andalusian school and showing how he harnessed Greco-Arabic learning to open new hermeneutical possibilities. This book focusses on the instruments, practices, and materialities produced by various authorities to monitor, regulate, and identify migrants in European cities from the sixteenth to the twentieth centuries. Whereas research on migration regulation typically looks at local policies for the early modern period and at state policies for the contemporary period, this book avoids the stalemate of modernity narratives by exploring a long-term genealogy of migration regulation in which cities played a pivotal role. The case studies range from early modern Venice, Stockholm and Constantinople, to nineteenth- and twentieth-century port towns and capital cities such as London and Vienna.

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