

Technology and Society

Building Our
Sociotechnical
Future

edited by
Deborah G. Johnson and
Jameson M. Wetmore

second edition



Technology And Society Building Our Sociotechnical Future Inside Technology

Christine Sturm



Technology And Society Building Our Sociotechnical Future Inside Technology:

Technology and Society, second edition Deborah G. Johnson, Jameson M. Wetmore, 2021-08-24 Writings by thinkers ranging from Rokeya Sakhawat Hossain to Bruno Latour that focus on the interconnections of technology society and values Technological change does not happen in a vacuum decisions about which technologies to develop fund market and use engage ideas about values as well as calculations of costs and benefits In order to influence the development of technology for the better we must first understand how technology and society are inextricably bound together These writings by thinkers ranging from Bruno Latour to Francis Fukuyama help us do just that examining how people shape technology and how technology shapes people This second edition updates the original significantly offering twenty one new essays along with fifteen from the first edition The book first presents visions of the future that range from technological utopias to cautionary tales and then introduces several major STS theories It examines human and social values and how they are embedded in technological choices and explores the interesting and subtle complexities of the technology society relationship Remediating a gap in earlier theorizing in the field many of the texts illustrate how race and gender are intertwined with technology Finally the book offers a set of readings that focus on the sociotechnical challenges we face today treating topics that include cybersecurity geoengineering and the myth of neutral technology Technology and Society Deborah G. Johnson, Jameson M. Wetmore, 2021 Anthology of thinkers ranging from Freeman Dyson to Bruno Latour focused on the interconnections of technology society and values and how these may affect the future *Technology and Society, second edition* Deborah G. Johnson, Jameson M. Wetmore, 2021-08-24 Writings by thinkers ranging from Rokeya Sakhawat Hossain to Bruno Latour that focus on the interconnections of technology society and values Technological change does not happen in a vacuum decisions about which technologies to develop fund market and use engage ideas about values as well as calculations of costs and benefits In order to influence the development of technology for the better we must first understand how technology and society are inextricably bound together These writings by thinkers ranging from Bruno Latour to Francis Fukuyama help us do just that examining how people shape technology and how technology shapes people This second edition updates the original significantly offering twenty one new essays along with fifteen from the first edition The book first presents visions of the future that range from technological utopias to cautionary tales and then introduces several major STS theories It examines human and social values and how they are embedded in technological choices and explores the interesting and subtle complexities of the technology society relationship Remediating a gap in earlier theorizing in the field many of the texts illustrate how race and gender are intertwined with technology Finally the book offers a set of readings that focus on the sociotechnical challenges we face today treating topics that include cybersecurity geoengineering and the myth of neutral technology **Technology and Society** Deborah G. Johnson, Jameson M. Wetmore, 2008-10-17 An anthology of writings by thinkers ranging from Freeman Dyson to Bruno Latour that focuses on the interconnections of

technology society and values and how these may affect the future Technological change does not happen in a vacuum decisions about which technologies to develop fund market and use engage ideas about values as well as calculations of costs and benefits This anthology focuses on the interconnections of technology society and values It offers writings by authorities as varied as Freeman Dyson Laurence Lessig Bruno Latour and Judy Wajcman that will introduce readers to recent thinking about technology and provide them with conceptual tools a theoretical framework and knowledge to help understand how technology shapes society and how society shapes technology It offers readers a new perspective on such current issues as globalization the balance between security and privacy environmental justice and poverty in the developing world The careful ordering of the selections and the editors introductions give Technology and Society a coherence and flow that is unusual in anthologies The book is suitable for use in undergraduate courses in STS and other disciplines The selections begin with predictions of the future that range from forecasts of technological utopia to cautionary tales These are followed by writings that explore the complexity of sociotechnical systems presenting a picture of how technology and society work in step shaping and being shaped by one another Finally the book goes back to considerations of the future discussing twenty first century challenges that include nanotechnology the role of citizens in technological decisions and the technologies of human enhancement

Sustainable Food Futures Jessica Duncan, Megan Bailey, 2017-08-04 Securing sustainable food for everyone is one of the world's most pressing challenges but research policy and programmes remain fragmented and effective solutions have been slow to emerge This book takes on these challenges by proposing a range of solutions that can advance pathways towards sustainable food futures Complete with recipes this book is structured so that readers are taken in a logical progression through discussions of solutions highlighting the need to recognise the importance of place and the importance of participation and to challenge dominant descriptions of markets through to re designing food systems The solutions presented in this book are based on real world cases but discussions remain deliberately broad to encourage thinking in new ways Cases are drawn from Africa Asia Europe and North and South America The book is of relevance to those interested in sustainable food futures and can serve as a supplementary textbook for a wide range of courses in food studies and related disciplines

Inside the Energiewende Christine Sturm, 2020-04-27 This book tells the story of one nation's sustained efforts to steer its economy toward low carbon technologies and to define national and global pathways for mitigating climate change Drawing on a long career in Germany's energy sector and on subsequent academic research the book reveals the weaknesses of and critical trade offs in Germany's bold energy transition plan the Energiewende and explores their causes Its goal is to provide insights to help policymakers and energy managers keep some of the problems that have plagued the Energiewende at bay and to instead explore avenues that are more likely to succeed While such insights cannot solve the problem of socio technical change overnight they do reveal alternative transition pathways that keep climate goals clearly in sight even if they are pursued with a bit less exuberance and a bit more humility The book is

addressed to academic professional and political readers alike **The Growing Gap Between Emerging Technologies and Legal-Ethical Oversight** Gary E. Marchant, Braden R. Allenby, Joseph R. Herkert, 2011-05-19 At the same time that the pace of science and technology has greatly accelerated in recent decades our legal and ethical oversight mechanisms have become bogged down and slower This book addresses the growing gap between the pace of science and technology and the lagging responsiveness of legal and ethical oversight society relies on to govern emerging technologies Whether it be biotechnology genetic testing nanotechnology synthetic biology computer privacy autonomous robotics or any of the other many emerging technologies new approaches are needed to ensure appropriate and timely regulatory responses This book documents the problem and offers a toolbox of potential regulatory and governance approaches that might be used to ensure more responsive oversight *Science, Technology, and Medicine in the Modern Japanese Empire* David G. Wittner, Philip C Brown, 2016-03-22 Science technology and medicine all contributed to the emerging modern Japanese empire and conditioned key elements of post war development As the only emerging non Western country that was a colonial power in its own right Japan utilized these fields not only to define itself as racially different from other Asian countries and thus justify its imperialist activities but also to position itself within the civilized and enlightened world with the advantages of modern science technologies and medicine This book explores the ways in which scientists engineers and physicians worked directly and indirectly to support the creation of a new Japanese empire focussing on the eve of World War I and linking their efforts to later post war developments By claiming status as a modern internationally engaged country the Japanese government was faced with having to control pathogens that might otherwise not have threatened the nation Through the use of traditional and innovative techniques this volume shows how the government was able to fulfil the state s responsibility to protect society to varying degrees Chapter 14 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

Make Way for the Superhumans Michael Bess, 2016-07-07 Biomedical research is changing the both the format and the functions of human beings Very soon the human race will be faced with a choice do we join in with the enhancement or not *Make Way for the Superhumans* looks at how far this technology has come and what aims and ambitions it has From robotic implants that restore sight to the blind to performance enhancing drugs that build muscles improve concentration and maintain erections bio enhancement has already made massive advances Humans have already developed the technology to transmit thoughts and actions brain to brain using only a computer interface By the time our grandchildren are born they will be presented with the option to significantly alter and redesign their bodies *Make Way for the Superhumans* is the only book that poses the questions that need answering now suggesting real practical ways of dealing with this technology before it reaches a point where it can no longer be controlled *Living with Robots* Paul Dumouchel, Luisa Damiano, 2017-11-06 From artificial intelligence to artificial empathy a timely and well written volume that addresses many contemporary and

future moral questions Library Journal Today's robots engage with human beings in socially meaningful ways as therapists trainers mediators caregivers and companions Social robotics is grounded in artificial intelligence but the field's most probing questions explore the nature of the very real human emotions that social robots are designed to emulate Social roboticists conduct their inquiries out of necessity every robot they design incorporates and tests a number of hypotheses about human relationships Paul Dumouchel and Luisa Damiano show that as roboticists become adept at programming artificial empathy into their creations they are abandoning the conventional conception of human emotions as discrete private internal experiences Rather they are reconceiving emotions as a continuum between two actors who coordinate their affective behavior in real time Rethinking the role of sociability in emotion has also led the field of social robotics to interrogate a number of human ethical assumptions and to formulate a crucial political insight there are simply no universal human characteristics for social robots to emulate What we have instead is a plurality of actors human and nonhuman in noninterchangeable relationships Foreshadowing an inflection point in human evolution Living with Robots shows that for social robots to be effective they must be attentive to human uniqueness and exercise a degree of social autonomy More than mere automatons they must become social actors capable of modifying the rules that govern their interplay with humans A detailed tour of the philosophy of artificial intelligence AI especially as it applies to robots intended to build social relationships with humanity If we are to build a robust appropriate ethical structure around the next generation of technical development some combination of deep learning artificial intelligence robotics and artificial empathy we need to understand that managing the impact of these technologies is far too important to be left to those who are enthusiastically engaged in producing them Times Higher Education

Waves and Forms Basile Zimmermann, 2015-05-22 An examination of the relationship between technical objects and culture in contemporary China drawing on concepts from science and technology studies Technical objects constrain what users do with them They are not neutral entities but embody information choices values assumptions or even mistakes embedded by designers What happens when a technology is designed in one culture and used in another What happens for example when a Chinese user is confronted by Roman alphabet embedded interfaces In this book Basile Zimmermann examines the relationship between technical objects and culture in contemporary China drawing on concepts from science and technology studies STS He presents a new theoretical framework for culture based on the notions of waves and forms which provides a powerful descriptive toolkit for technology and culture The materials Zimmermann uses to develop and illustrate his theoretical arguments come from three groups of case studies about the use of technical devices in today's China The first and most extensive group consists of observations of electronic music devices in Beijing the second is a study of a Chinese networking site Happy Network and the third is a collection of personal small scale observations on the way Chinese characters behave when located in alphabet encoded devices such as mobile phones web pages or printed documents Zimmermann discusses well known frameworks from STS and combines them with

propositions and topics from Chinese studies Each of the case studies advances his theoretical argument Zimmermann's account shows how cultural differences can be integrated into STS research and how sinologists can turn their attention from ancient texts and traditional art to everyday things in present day China

The Sound of Innovation Andrew J. Nelson, 2015-03-06 How a team of musicians engineers computer scientists and psychologists developed computer music as an academic field and ushered in the era of digital music In the 1960s a team of Stanford musicians engineers computer scientists and psychologists used computing in an entirely novel way to produce and manipulate sound and create the sonic basis of new musical compositions This group of interdisciplinary researchers at the nascent Center for Computer Research in Music and Acoustics CCRMA pronounced karma helped to develop computer music as an academic field invent the technologies that underlie it and usher in the age of digital music In *The Sound of Innovation* Andrew Nelson chronicles the history of CCRMA tracing its origins in Stanford's Artificial Intelligence Laboratory through its present day influence on Silicon Valley and digital music groups worldwide Nelson emphasizes CCRMA's interdisciplinarity which stimulates creativity at the intersections of fields its commitment to open sharing and users and its pioneering commercial engagement He shows that Stanford's outsized influence on the emergence of digital music came from the intertwining of these three modes which brought together diverse supporters with different aims around a field of shared interest Nelson thus challenges long standing assumptions about the divisions between art and science between the humanities and technology and between academic research and commercial applications showing how the story of a small group of musicians reveals substantial insights about innovation Nelson draws on extensive archival research and dozens of interviews with digital music pioneers the book's website provides access to original historic documents and other material

Power Lines Jennifer L. Lieberman, 2017-07-14 How electricity became a metaphor for modernity in the United States inspiring authors from Mark Twain to Ralph Ellison At the turn of the twentieth century electricity emerged as a metaphor for modernity Writers from Mark Twain to Ralph Ellison grappled with the idea of electricity as both life force illumination and death spark electrocution The idea that electrification created exclusively modern experiences took hold of Americans' imaginations whether they welcomed or feared its adoption In *Power Lines* Jennifer Lieberman examines the apparently incompatible notions of electricity that coexisted in the American imagination tracing how electricity became a common though multifarious symbol for modern life Lieberman examines a series of moments of technical change when electricity accrued new social meanings plotting both power lines and the power of narrative lines in American life and literature While discussing the social construction of electrical systems she offers a new interpretation of Twain's use of electricity as an organizing metaphor in *A Connecticut Yankee in King Arthur's Court* describes the rhetoric surrounding the invention of electric execution analyzes Charlotte Perkins Gilman's call for human connection in her utopian writing and in her little known *Human Work* considers the theme of electrical interconnection in Jack London's work and shows how Ralph Ellison and Louis Mumford continued the

literary tradition of electrical metaphor Electrical power was a distinctive concept in American literary cultural and technological histories For this reason narratives about electricity were particularly evocative Bridging the realistic and the romantic the historical and the fantastic these stories guide us to ask new questions about our enduring fascination with electricity and all it came to represent

European Objects Brice Laurent, 2022-02-08 How interventions based on objects including chemicals financial products and consumer goods offer a path to rethink European integration Interventions based on objects Brice Laurent claims have become a dominant path for European policy making In European Objects Laurent analyzes the political consequences of these interventions and their democratization He uses the term European objects to describe technical entities that are regulated and thereby transformed by European policies To uncover the bureaucratic and regulatory intricacies of European governance Laurent focuses on a series of these objects including food products chemicals financial products consumer goods drinking water and occupational environments Laurent argues that taking European objects seriously offers a way to rephrase the dreams of harmonization and eventually rethink the constitutional strength of European integration Laurent doesn't just clarify how European regulation works but also explores ways to realize long term objectives for European integration such as a harmonized market or an objective expertise Regulation is best understood as regulatory machinery bringing together various types of legal constraints material interventions on objects and the imagining of desirable futures Analyzing European objects enables Laurent to explore what regulation has become after years of evolution have made it a central component of the European policy world He offers practical illustrations of how the regulatory machinery functions today If Europe succeeds at reinventing the terms of its legitimacy with objects that matter for the European publics it will provide a telling demonstration that the opposition of expertise and populism is not the unavoidable fate of liberal democracies

Mapping Israel, Mapping Palestine Jess Bier, 2017-06-30 Digital practices in social and political landscapes Why two researchers can look at the same feature and see different things Maps are widely believed to be objective and data rich computer made maps are iconic examples of digital knowledge It is often claimed that digital maps and rational boundaries can solve political conflict But in Mapping Israel Mapping Palestine Jess Bier challenges the view that digital maps are universal and value free She examines the ways that maps are made in Palestine and Israel to show how social and political landscapes shape the practice of science and technology How can two scientific cartographers look at the same geographic feature and see fundamentally different things In part Bier argues because knowledge about the Israeli military occupation is shaped by the occupation itself Ongoing injustices including checkpoints roadblocks and summary arrests mean that Palestinian and Israeli cartographers have different experiences of the landscape Palestinian forms of empirical knowledge including maps continue to be discounted Bier examines three representative cases of population governance and urban maps She analyzes Israeli population maps from 1967 to 1995 when Palestinian areas were left blank Palestinian state maps of the late 1990s and early 2000s which were influenced by Israeli raids on Palestinian

offices and the legacy of British colonial maps and urban maps after the Second Intifada which show how segregated observers produce dramatically different maps of the same area The geographic production of knowledge including what and who are considered scientifically legitimate can change across space and time Bier argues that greater attention to these changes and to related issues of power will open up more heterogeneous ways of engaging with the world

Developer's Dilemma Casey O'Donnell, 2014-11-21 Step inside the shoes of video game creators in this fascinating look at game development and how it can inform our understanding of work Rank and file game developers bring videogames from concept to product and yet their work is almost invisible hidden behind the famous names of publishers executives or console manufacturers In this book Casey O'Donnell examines the creative collaborative practice of typical game developers His investigation of why game developers work the way they do sheds light on our understanding of work the organization of work and the market forces that shape and are shaped by media industries O'Donnell shows that the ability to play with the underlying systems technical conceptual and social is at the core of creative and collaborative practice which is central to the New Economy When access to underlying systems is undermined so too is creative collaborative process Drawing on extensive fieldwork in game studios in the United States and India O'Donnell stakes out new territory empirically conceptually and methodologically Mimicking the structure of videogames the book is divided into worlds within which are levels and each world ends with a boss fight a rant about lessons learned and tools mastered O'Donnell describes the process of videogame development from pre production through production considering such aspects as experimental systems socially mandatory overtime and the perpetual startup machine that exhausts young initially enthusiastic workers He links work practice to broader systems of publishing manufacturing and distribution introduces the concept of a privileged actor intra internetwork and describes patent and copyright enforcement by industry and the state

The Squares Cyrus C. M. Mody, 2022-07-12 When ungroovy scientists did groovy science how non activist scientists and engineers adapted their work to a rapidly changing social and political landscape In The Squares Cyrus Mody shows how between the late 1960s and the early 1980s some scientists and engineers who did not consider themselves activists New Leftists or members of the counterculture accommodated their work to the rapidly changing social and political landscape of the time These square scientists Mody shows began to do many of the things that the counterculture urged turn away from military industrial funding become more interdisciplinary and focus their research on solving problems of civil society During the period Mody calls the long 1970s ungroovy scientists were doing groovy science Mody offers a series of case studies of some of these collective efforts by non activist scientists to use their technical knowledge for the good of society He considers the region around Santa Barbara and the interplay of public universities think tanks established firms new companies philanthropies and social movement organizations He looks at Stanford University's transition from Cold War science to commercialized technoscience NASA's search for a post Apollo mission the unsuccessful foray into solar energy by Nobel laureate Jack Kilby

the civilianization of the US semiconductor industry and systems engineer Arthur D Hall's ill-fated promotion of automated agriculture

Assetization Kean Birch, Fabian Muniesa, 2020-07-14 How the asset anything that can be controlled traded and capitalized as a revenue stream has become the primary basis of technoscientific capitalism In this book scholars from a range of disciplines argue that the asset meaning anything that can be controlled traded and capitalized as a revenue stream has become the primary basis of technoscientific capitalism An asset can be an object or an experience a sum of money or a life form a patent or a bodily function A process of assetization prevails imposing investment and return as the key rationale and overtaking commodification and its speculative logic Although assets can be bought and sold the point is to get a durable economic rent from them rather than make a killing on the market Assetization examines how assets are constructed and how a variety of things can be turned into assets analyzing the interests activities skills organizations and relations entangled in this process The contributors consider the assetization of knowledge including patents personal data and biomedical innovation of infrastructure including railways and energy of nature including mineral deposits agricultural seeds and natural capital and of publics including such public goods as higher education and monetizable social ills Taken together the chapters show the usefulness of assetization as an analytical tool and as an element in the critique of capitalism Contributors Thomas Beauvisage Kean Birch Veit Braun Natalia Buier B atrice Cointe Paul Robert Gilbert Hyo Yoon Kang Les Levidow Kevin Mellet Sveta Milyaeva Fabian Muniesa Alain Nada Daniel Neyland Victor Roy James W Williams

Situated Intervention Teun Zuiderent-Jerak, 2015-08-28 An exploration of sociological research that is neither detached nor engaged a new approach to sociological knowledge production with examples from health care In this book Teun Zuiderent Jerak considers how the direct involvement of social scientists in the practices they study can lead to the production of sociological knowledge Neither detached sociological scholarship nor engaged social science this new approach to sociological research brings together two activities often viewed as belonging to different realms intervening in practices and furthering scholarly understanding of them Just as the natural sciences benefited from broadening their scholarship from theorizing to experiment so too could the social sciences Additionally Zuiderent Jerak points out rather than proceeding from a pre-set normative agenda scholarly intervention allows for the experimental production of normativity Scholars are far from detached but still may be surprised by the normative outcomes of the interactions within the experiment Zuiderent Jerak illustrates situated intervention research with a series of examples drawn from health care Among the topics addressed are patient compliance in hemophilia home care the organization of oncology care and the value of situated standardization the relationship between standardization and patient centeredness the development of patient centered pathways value driven and savings driven approaches to the construction of health care markets and multiple ontologies of safety in care for older adults Finally returning to the question of normativity in sociological research Zuiderent Jerak proposes an ethics of specificity according to which research adapts its sociological responses to the practices studied Sociology not only has more

to offer to the practices it studies it also has more to learn from them Environmental Realism Kristan Cockerill, Melanie Armstrong, Jennifer Richter, Jordan G. Okie, 2017-03-29 This interdisciplinary book challenges current approaches to environmental problems that perpetuate flawed but deeply embedded cultural beliefs about the role of science and technology in society The authors elucidate and interrogate a cultural history of solutionism that typifies expectations that science can should and will reduce risk to people and property by containing and controlling biophysical phenomena Using historical analysis eco evolutionary principles and case studies on floods radioactive waste and epidemics the authors show that perceived solutions to environmental problems generate new problems leading to problem solution cycles of increasing scope and complexity The authors encourage readers to challenge the ideology of solutionism by considering the potential of language social action and new paradigms of sustainability to shape management systems This book will appeal to scholars in multi and interdisciplinary fields such as Environment Studies Environmental Science Environmental Policy and Science Technology and Society Studies

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Table of Contents Technology And Society Building Our Sociotechnical Future Inside Technology

1. Understanding the eBook Technology And Society Building Our Sociotechnical Future Inside Technology
 - The Rise of Digital Reading Technology And Society Building Our Sociotechnical Future Inside Technology
 - Advantages of eBooks Over Traditional Books
2. Identifying Technology And Society Building Our Sociotechnical Future Inside Technology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Technology And Society Building Our Sociotechnical Future Inside Technology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Technology And Society Building Our Sociotechnical Future Inside Technology
 - Personalized Recommendations
 - Technology And Society Building Our Sociotechnical Future Inside Technology User Reviews and Ratings
 - Technology And Society Building Our Sociotechnical Future Inside Technology and Bestseller Lists
5. Accessing Technology And Society Building Our Sociotechnical Future Inside Technology Free and Paid eBooks
 - Technology And Society Building Our Sociotechnical Future Inside Technology Public Domain eBooks
 - Technology And Society Building Our Sociotechnical Future Inside Technology eBook Subscription Services

- Technology And Society Building Our Sociotechnical Future Inside Technology Budget-Friendly Options
- 6. Navigating Technology And Society Building Our Sociotechnical Future Inside Technology eBook Formats
 - ePub, PDF, MOBI, and More
 - Technology And Society Building Our Sociotechnical Future Inside Technology Compatibility with Devices
 - Technology And Society Building Our Sociotechnical Future Inside Technology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Technology And Society Building Our Sociotechnical Future Inside Technology
 - Highlighting and Note-Taking Technology And Society Building Our Sociotechnical Future Inside Technology
 - Interactive Elements Technology And Society Building Our Sociotechnical Future Inside Technology
- 8. Staying Engaged with Technology And Society Building Our Sociotechnical Future Inside Technology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Technology And Society Building Our Sociotechnical Future Inside Technology
- 9. Balancing eBooks and Physical Books Technology And Society Building Our Sociotechnical Future Inside Technology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Technology And Society Building Our Sociotechnical Future Inside Technology
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Technology And Society Building Our Sociotechnical Future Inside Technology
 - Setting Reading Goals Technology And Society Building Our Sociotechnical Future Inside Technology
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Technology And Society Building Our Sociotechnical Future Inside Technology
 - Fact-Checking eBook Content of Technology And Society Building Our Sociotechnical Future Inside Technology
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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