

Leonardo To The Internet Technology And Culture From The Renaissance To The Present Johns Hopkins Studies In The History Of Technology

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American Book Publishing Record - 2004

A Companion to the Philosophy of Technology - Jan Kyrre Berg Olsen 2012-10-01

Drawing on essays from leading international and multi-disciplinary scholars, *A Companion to the Philosophy of Technology* is the first comprehensive and authoritative reference source to cover the key issues of technology's impact on society and our lives. Presents the first complete, authoritative reference work in the field Organized thematically for use both as a full introduction to the field or an encyclopedic reference Draws on original essays from leading interdisciplinary scholars Features the most up-to-date and cutting edge research in the interdisciplinary fields of philosophy, technology, and their broader intellectual environments

Corporate Opportunities - Marco Claudio Corradi 2021-08-26

This monograph provides a comprehensive analysis of corporate opportunities doctrines from a comparative perspective. It looks at both common law and civil law rules and relies to a large extent on a law and economics approach. This book broadens the conventional view on corporate opportunities, a vital step in light of the adoption of corporate opportunities rules in civil law jurisdictions and in light of investors' ever-changing strategies. This approach considers institutional complementarities and especially industrial complementarities. The book thus explores several jurisdictions and their economic and industrial environments, whilst also assessing the impact of globalisation onto legal reform. Furthermore, it analyses the problems related to the application of corporate opportunities rules to cross-border venture capital. In normative terms, the book advances one main stance, articulated in three points: first, it proposes different sanctions for

undisclosed and disclosed misappropriations, supporting the core idea that sanctions should be set against disclosure and not authorisation. Secondly, it advances the idea that sanctions against undisclosed misappropriations should be more severe than the ones presently applied. Thirdly, it considers the possibility of a more flexible treatment of disclosed misappropriations. This study is positioned at the intersection of several fields, providing a lens into a much broader range of dynamics that will be of interest to a varied international readership, and offering a window into the broader institutional dynamics at work in centres of innovation (eg Silicon Valley and industrial districts in other jurisdictions). It is rooted in law and economics, but the emphasis is placed on how corporate opportunities rules fit within a broader set of institutional dynamics that affect innovation, industrial efficiency, and economic competitiveness.

The Oxford Encyclopedia of American Cultural and Intellectual History -

Joan Shelley Rubin 2013-03-14

The Oxford Encyclopedia of American Cultural and Intellectual History brings together in one two-volume set the record of the nation's values, aspirations, anxieties, and beliefs as expressed in both everyday life and formal bodies of thought. Over the past twenty years, the field of cultural history has moved to the center of American historical studies, and has come to encompass the experiences of ordinary citizens in such arenas as reading and religious practice as well as the accomplishments of prominent artists and writers. Some of the most imaginative scholarship in recent years has emerged from this burgeoning field. The scope of the

volume reflects that development: the encyclopedia incorporates popular entertainment ranging from minstrel shows to video games, middlebrow ventures like Chautauqua lectures and book clubs, and preoccupations such as "Perfectionism" and "Wellness" that have shaped Americans' behavior at various points in their past and that continue to influence attitudes in the present. The volumes also make available recent scholarly insights into the writings of political scientists, philosophers, feminist theorists, social reformers, and other thinkers whose works have furnished the underpinnings of Americans' civic activities and personal concerns. Anyone wishing to understand the hearts and minds of the inhabitants of the United States from the early days of settlement to the twenty-first century will find the encyclopedia invaluable.

Ubiquitous Photography - Martin Hand
2013-04-26

The rise of digital photography and imaging has transformed the landscape of visual communication and culture. Events, activities, moments, objects, and people are 'captured' and distributed as images on an unprecedented scale. Many of these are shared publicly; some remain private, others become intellectual property, and some have the potential to shape global events. In this timely introduction, the ubiquity of photography is explored in relation to interdisciplinary debates about changes in the production, distribution, and consumption of images in digital culture. Ubiquitous Photography provides a critical examination of the technologies, practices, and cultural significance of digital photography, placing the phenomenon in historical, social, and political-economic context. It examines shifts in image-making, storage, commodification, and

interpretation as highly significant processes of digitally mediated communication in an increasingly image-rich culture. It covers debates in social and cultural theory, the history and politics of image-making and manipulation, the current explosion in amateur photography, tagging and sharing via social networking, and citizen journalism. The book engages with key contemporary theoretical issues about memory and mobility, authorship and authenticity, immediacy and preservation, and the increased visibility of ordinary social life. Drawing upon a range of sources and original empirical research, *Ubiquitous Photography* provides a comprehensive introduction to critical academic debate and concrete developments in the field of digital photography. It is essential reading for students and scholars interested in media and society, visual culture, and digital technology.

Forthcoming Books - Rose Arny 2004

Marconi's Wireless and the Rhetoric of a New Technology

- Aaron A. Toscano 2012-02-09

This book examines the discourse surrounding the wireless, created by the Anglo-Italian inventor Guglielmo Marconi. The wireless excited early twentieth-century audiences before it even became a viable black box technology. The wireless adhered to modernist values—speed, efficiency, militarization, and progress. Language surrounding the wireless is a form of technical communication, overlooked by today's practitioners. This book establishes a broader definition for technical communication by examining a selection of the discourse surrounding Marconi's wireless. The book's main themes are the following: 1) technical communication is all discourse surrounding technology, 2)

the field of technical communication (or technical writing) should incorporate analyses of discourse surrounding technologies into its epistemology, 3) the wireless is a product of the society from which it comes (early twentieth-century Western civilization), and 4) the discourse surrounding the wireless is infused with tropes of progress—speed, efficiency, evolution, and ahistoricity.

Northscapes - Dolly Jrgensen 2013-11-08

This book argues that the unique environments of the North have been born of the relationship between humans and nature. Approaching the topic through the lens of environmental history, the contributors examine a broad range of geographies, including those of Iceland and other islands in the Northern Atlantic, Sweden, Finland, Russia, the Pacific Northwest, and Canada, over a time span ranging from CE 800 to 2000. *Northscapes* is bound together by the intellectual project of investigating the North both as an imagined and mythologized space and as an environment shaped by human technology.

Locations of Knowledge in Dutch Contexts

- 2019-10-21

Locations of Knowledge in Dutch Contexts examines how places give shape to scientific knowledge production. Contributors to this volume use four hundred years of Dutch history as laboratory to contribute to spatialized understanding of the history of knowledge.

The Mansion of Happiness - Jill Lepore 2012

"A history of American ideas about life and death includes coverage of topics ranging from the 17th-century Englishman who investigated a belief about life starting with eggs and the heated debates over Darwin's

evolutionary findings to the role of the Space Age in changing views on planetary life to the 1970s trends in cryogenics." -- Publishers description
Leonardo to the Internet - Thomas J. Misa 2011-05-16

Historian Thomas J. Misa's sweeping history of the relationship between technology and society over the past 500 years reveals how technological innovations have shaped -- and have been shaped by -- the cultures in which they arose. Spanning the preindustrial past, the age of scientific, political, and industrial revolutions, as well as the more recent eras of imperialism, modernism, and global security, this compelling work evaluates what Misa calls "the question of technology." Misa brings his acclaimed text up to date by examining how today's unsustainable energy systems, insecure information networks, and vulnerable global shipping have helped foster geopolitical risks and instability. A masterful analysis of how technology and culture have influenced each other over five centuries, *Leonardo to the Internet* frames a history that illuminates modern-day problems and prospects faced by our technology-dependent world. Praise for the first edition "Closely reasoned, reflective, and written with insight, grace, and wit, Misa's book takes us on a personal tour of technology and history, seeking to define and analyze paradigmatic techno-cultural eras." - Technology and Culture "Follows [Thomas] Hughes's model of combining an engaging historical narrative with deeper lessons about technology." -- American Scholar "His case studies, such as that of Italian futurism or the localizations of the global McDonalds, provide good starting points for thought and discussion." - Journal of Interdisciplinary History "This review cannot do

justice to the precision and grace with which Misa analyzes technologies in their social contexts. He convincingly demonstrates the usefulness of his conceptual model."

-- History and Technology "A fascinating, informative, and well-illustrated book." -- Choice

Rubber Science - Yuko Ikeda 2017-09-26

This book is an up-to-date text on rubber science and is a breakthrough among many rubber-related publications. Emphasis is placed on the most modern scientific approaches to rubber science, departing from the usual detailed descriptions of trial-and-error results of traditional rubber technology. The book is a good introduction to modern rubber science both for graduate students and for more or less experienced rubber engineers for updating their way of thinking in handling of technological problems. Due to the increasing importance of pneumatic tires of vehicles and aircraft in modern transportation, this work will be of great use for general readers as well, including those who are concerned with sustainable development.

Picturing Technology in China - Peter J. Golas 2014-12-01

Although the history of technological and scientific illustrations is a well-established field in the West, scholarship on the much longer Chinese experience is still undeveloped. This work by Peter Golas is a short, illustrated overview tracing the subject to pre-Han inscriptions but focusing mainly on the Song, Yuan, Ming, and Qing dynasties. His main theme is that technological drawings developed in a different way in China from in the West largely because they were made by artists rather than by specialist illustrators or practitioners of technology. He examines the

techniques of these artists, their use of painting, woodblock prints and the book, and what their drawings reveal about changing technology in agriculture, industry, architecture, astronomical, military, and other spheres. The text is elegantly written, and the images, about 100 in all, are carefully chosen. This is likely to appeal to both scholars and general readers.

A Nation of Steel - Thomas J. Misa
1998-09-04

From the age of railroads through the building of the first battleships, from the first skyscrapers to the dawning of the age of the automobile, steelmakers proved central to American industry, building, and transportation. In *A Nation of Steel* Thomas Misa explores the complex interactions between steelmaking and the rise of the industries that have characterized modern America. *A Nation of Steel* offers a detailed and fascinating look at an industry that has had a profound impact on American life.

Microhistories of Technology - Mikael Hård
2023-03-24

In this open access book, Mikael Hård tells a story of how people around the world challenged the production techniques and products brought by globalization. Retaining their autonomy and freedom, creative individuals selectively adopted or rejected modern gadgets, tools, and machines. In standard historical narratives, globalization is portrayed as an unstoppable force that flattens all obstacles in its path. Modern technology is also seen as inexorable: in the nineteenth century, steamships, telegraph lines, and Gatling guns are said to have paved the way for colonialism and other forms of dominating people and societies. Later, shipping containers and computer networks purportedly pulled the planet deeper into a

maelstrom of capitalism. Hård discusses instances that push back against these narratives. For example, in Soviet times, inhabitants of Samarkand, Uzbekistan, preferred to remain in—and expand—their own mud-brick houses rather than move into prefabricated, concrete residential buildings. Similarly, nineteenth-century Sumatran carpenters ignored the saws brought to them by missionaries—and chose to chop down trees with their arch-bladed adzes. And people in colonial India successfully competed with capitalist-run Caribbean sugar plantations, continuing to produce their own muscovado and sell it to local consumers. This book invites readers to view the history of technology and material culture through the lens of diversity. Based on research funded by the European Research Council and conducted in the Global South, *Microhistories of Technology: Making the World* shows that the spread of modern technologies did not erase artisanal production methods and traditional tools.

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.

The Cambridge World History: Volume 6, The Construction of a Global World, 1400–1800 CE, Part 1, Foundations - Jerry H. Bentley
2015-04-09

The era from 1400 to 1800 saw intense biological, commercial, and cultural exchanges, and the creation of global connections on an unprecedented scale. Divided into two books, Volume 6 of the Cambridge World History series considers these critical transformations. The first book examines the material and political foundations of the era, including

global considerations of the environment, disease, technology, and cities, along with regional studies of empires in the eastern and western hemispheres, crossroads areas such as the Indian Ocean, Central Asia, and the Caribbean, and sites of competition and conflict, including Southeast Asia, Africa, and the Mediterranean. The second book focuses on patterns of change, examining the expansion of Christianity and Islam, migrations, warfare, and other topics on a global scale, and offering insightful detailed analyses of the Columbian exchange, slavery, silver, trade, entrepreneurs, Asian religions, legal encounters, plantation economies, early industrialism, and the writing of history.

A Material History of Medieval and Early Modern Ciphers - Katherine Ellison
2017-09-14

The first cultural history of early modern cryptography, this collection brings together scholars in history, literature, music, the arts, mathematics, and computer science who study ciphering and deciphering from new materialist, media studies, cognitive studies, disability studies, and other theoretical perspectives. Essays analyze the material forms of ciphering as windows into the cultures of orality, manuscript, print, and publishing, revealing that early modern ciphering, and the complex history that preceded it in the medieval period, not only influenced political and military history but also played a central role in the emergence of the capitalist media state in the West, in religious reformation, and in the scientific revolution. Ciphered communication, whether in etched stone and bone, in musical notae, runic symbols, polyalphabetic substitution, algebraic equations, graphic typographies, or literary

metaphors, took place in contested social spaces and offered a means of expression during times of political, economic, and personal upheaval. Ciphery shaped the early history of linguistics as a discipline, and it bridged theological and scientific rhetoric before and during the Reformation. Ciphery was an occult art, a mathematic language, and an aesthetic that influenced music, sculpture, painting, drama, poetry, and the early novel. This collection addresses gaps in cryptographic history, but more significantly, through cultural analyses of the rhetorical situations of ciphery and actual solved and unsolved medieval and early modern ciphers, it traces the influences of cryptographic writing and reading on literacy broadly defined as well as the cultures that generate, resist, and require that literacy. This volume offers a significant contribution to the history of the book, highlighting the broader cultural significance of textual materialities.

The Rise of Western Power - Jonathan Daly 2021-01-14

In this second edition of *The Rise of Western Power*, Jonathan Daly retains the broad sweep of his introduction to the history of Western civilization as well as introducing new material into every chapter, enhancing the book's global coverage and engaging with the latest historical debates. The West's history is one of extraordinary success: no other region, empire, culture, or civilization has left so powerful a mark upon the world. Daly charts the West's achievements—representative government, the free enterprise system, modern science, and the rule of law—as well as its misdeeds: two World Wars, the Holocaust, imperialistic domination, and the Atlantic slave trade. Taking

us through a series of revolutions, he explores the contributions of other cultures and civilizations to the West's emergence, weaving in historical, geographical, and cultural factors. The new edition also contains more material on themes such as the environment and gender, and additional coverage of India, China and the Islamic world. Daly's engaging narrative is accompanied by timelines, maps and further reading suggestions, along with a companion website featuring study questions, over 100 primary sources and 60 historical maps to enable further study.

The Language of Law and Food - Salvatore Mancuso 2021-04-28

This book reconsiders the use of food metaphors and the relationship between law and food in an interdisciplinary perspective to examine how food related topics can be used to describe or identify rules, norms, or prescriptions of all kinds. The links between law and food are as old as the concept of law. Many authors have been using such links in creative ways to express specific features of law. This is because the language of food and cooking offers legal thinkers and teachers mouth-watering metaphors, comparing rules to recipes, and their combination to culinary processes. This collection focuses on this relationship between law and food and takes us far beyond their mere interaction, to explore different ways of using these two apparently so diverse elements to describe different phenomena of the legal reality. The authors use the link between food and law to describe different aspects of the legal landscape in different areas and jurisdictions. Bringing together metaphors and indirect correlations between law and food, the book explores different models of

approaching legal issues and considering different legal challenges from a completely new perspective, in line with the multidisciplinary approach that leads comparative legal studies today and, to a certain extent, revisiting and enriching it. With contributions in English and French, the book will be of interest to academics and researchers working in the areas of law and food, law and language, and comparative legal studies.

The Shock of the Old - David Edgerton
2011-08-29

"First published in Great Britain by Profile Books, Ltd., 2007"--T.p. verso.

Taconite Dreams - Jeffrey T. Manuel
2015-10-12

Winner of the Midwestern History Association's 2016 Hamlin Garland Prize The Iron Range earned its name honestly: it was once among the world's richest iron ore mining districts. The Iron Range propelled the U.S. steel industry in the late nineteenth century, and iron mining sustained generations in the region with work and a strong economy. But long before most other parts of the country faced the realities of industrial decline, Minnesota's Iron Range was already striving to maintain its core industry. In *Taconite Dreams: The Struggle to Sustain Mining on Minnesota's Iron Range, 1915–2000*, Jeffrey T. Manuel examines how the region fought the dislocation that came with economic changes, technological advances, and global shifts in industrial production. On the Iron Range, efforts included the development of taconite mining as a technological fix for the drop in hematite mining. Manuel describes the Iron Range's modern history and how the downturn was opposed by individuals, civic groups, and commercial interests. The first book dedicated to thoroughly

exploring this era on the Iron Range, *Taconite Dreams* demonstrates how the area fit into a larger story of regions wrestling with deindustrialization in the twentieth century. The 1964 taconite amendment to Minnesota's constitution, the bruising federal pollution lawsuit that closed a taconite plant, and the Iron Range Resources and Rehabilitation Board's economic development policy are all discussed. Ultimately, the resistance against economic decline is also a battle over mining's memory and legacy, one that continues today. Manuel's history sheds much-needed light on this important yet widely overlooked mining region as well as the impact of the past century's struggles on the people who call it home.

Rebellion, Rascals, and Revenue - Michael Keen 2022-05-17

An engaging and enlightening account of taxation told through lively, dramatic, and sometimes ludicrous stories drawn from around the world and across the ages Governments have always struggled to tax in ways that are effective and tolerably fair. Sometimes they fail grotesquely, as when, in 1898, the British ignited a rebellion in Sierra Leone by imposing a tax on huts—and, in repressing it, ended up burning the very huts they intended to tax. Sometimes they succeed astonishingly, as when, in eighteenth-century Britain, a cut in the tax on tea massively increased revenue. In this entertaining book, two leading authorities on taxation, Michael Keen and Joel Slemrod, provide a fascinating and informative tour through these and many other episodes in tax history, both preposterous and dramatic—from the plundering described by Herodotus and an Incan tax payable in lice to the (misremembered) Boston Tea Party and the scandals of the Panama Papers. Along the way, readers meet a

colorful cast of tax rascals, and even a few tax heroes. While it is hard to fathom the inspiration behind such taxes as one on ships that tended to make them sink, Keen and Slemrod show that yesterday's tax systems have more in common with ours than we may think. Georgian England's window tax now seems quaint, but was an ingenious way of judging wealth unobtrusively. And Tsar Peter the Great's tax on beards aimed to induce the nobility to shave, much like today's carbon taxes aim to slow global warming. *Rebellion, Rascals, and Revenue* is a surprising and one-of-a-kind account of how history illuminates the perennial challenges and timeless principles of taxation—and how the past holds clues to solving the tax problems of today. **Journal of Economic Literature** - 2004

The Net Delusion - Evgeny Morozov
2011

Publisher's description: "The revolution will be Twittered!" declared journalist Andrew Sullivan after protests erupted in Iran. Yet for all the talk about the liberalizing force of the internet, regimes in Iran and China are as stable and repressive as ever. In fact, authoritarian regimes are effectively using the internet to suppress free speech and democracy. What's more, the latest research shows that greater access to information pacifies a population as much as it incites it to revolution. If we in the West are to promote liberal ideals, we'll have to do more than fund Facebook. In this book, blogger and social commentator Evgeny Morozov tackles these issues with relentless energy and analytical savvy. Marshalling a compelling set of case studies, he shows why we must stop thinking of the internet and social media as instant cures for repression, and how, in some cases,

they can even threaten democracy. *Anglo Nostalgia* - Edoardo Campanella
2019-08-01

Nostalgia has become a major force in global politics. While Donald Trump hopes to "make America great again," Xi Jinping calls for a "great rejuvenation of the Chinese people," and a majority of Russians still mourn the Soviet Union. But it is Brexit, with its idealization of a bygone era of full sovereignty, that epitomizes nostalgic nationalism in its purest form. Despite its romantic flavor, nostalgia is a malaise--a combination of paranoia and melancholy that idealizes the past, while denigrating the present. This epidemic of mythicizing national history is shaping politics in risky ways, fueled by ageing populations, shifts in the global order, and technological disruption. When deployed in the political debate, collective nostalgia is used as an emotional weapon, capable of mobilizing a nation towards illusory goals. Drawing on psychology, political science, history and popular culture, *Anglo Nostalgia* analyses the rapid spread of this global phenomenon, before focusing on Brexit as a case study. With the detachment of informed outsiders, Campanella and Dassù expose nostalgia's great danger: the oversimplification of reality, leading to unprecedented political miscalculations and rising geopolitical tensions.

Hubris and Hybrids - Mikael Hård
2013-09-13

Human societies have not always taken on new technology in appropriate ways. Innovations are double-edged swords that transform relationships among people, as well as between human societies and the natural world. Only through successful cultural appropriation can we manage to control the hubris that is

fundamental to the innovative, enterprising human spirit; and only by becoming hybrids, combining the human and the technological, will we be able to make effective use of our scientific and technological achievements. This broad cultural history of technology and science provides a range of stories and reflections about the past, discussing areas such as film, industrial design, and alternative environmental technologies, and including not only European and North American, but also Asian examples, to help resolve the contradictions of contemporary high-tech civilization.

These Truths: A History of the United States - Jill Lepore 2018-09-18
New York Times Bestseller In the most ambitious one-volume American history in decades, award-winning historian and New Yorker writer Jill Lepore offers a magisterial account of the origins and rise of a divided nation, an urgently needed reckoning with the beauty and tragedy of American history. Written in elegiac prose, Lepore's groundbreaking investigation places truth itself—a devotion to facts, proof, and evidence—at the center of the nation's history. The American experiment rests on three ideas—"these truths," Jefferson called them—political equality, natural rights, and the sovereignty of the people. And it rests, too, on a fearless dedication to inquiry, Lepore argues, because self-government depends on it. But has the nation, and democracy itself, delivered on that promise? *These Truths* tells this uniquely American story, beginning in 1492, asking whether the course of events over more than five centuries has proven the nation's truths, or belied them. To answer that question, Lepore traces the intertwined histories of American politics, law, journalism, and technology, from the colonial

town meeting to the nineteenth-century party machine, from talk radio to twenty-first-century Internet polls, from Magna Carta to the Patriot Act, from the printing press to Facebook News. Along the way, Lepore's sovereign chronicle is filled with arresting sketches of both well-known and lesser-known Americans, from a parade of presidents and a rogues' gallery of political mischief makers to the intrepid leaders of protest movements, including Frederick Douglass, the famed abolitionist orator; William Jennings Bryan, the three-time presidential candidate and ultimately tragic populist; Pauli Murray, the visionary civil rights strategist; and Phyllis Schlafly, the uncredited architect of modern conservatism. Americans are descended from slaves and slave owners, from conquerors and the conquered, from immigrants and from people who have fought to end immigration. "A nation born in contradiction will fight forever over the meaning of its history," Lepore writes, but engaging in that struggle by studying the past is part of the work of citizenship. "The past is an inheritance, a gift and a burden," *These Truths* observes. "It can't be shirked. There's nothing for it but to get to know it."

FastLane - Thomas J. Misa 2016-01-15
Why did the NSF create FastLane, and how did it anticipate the development of web-based e-commerce? What technical challenges did the glitch-prone early system present? Did the switch to electronic grant proposals disadvantage universities with fewer resources? And how did the scientific community help shape FastLane? Foregrounding the experience of computer users, the book draws on hundreds of interviews with scientific researchers, sponsored project administrators, NSF staff, and software designers, developers,

and managers.

How Transformative Innovations Shaped the Rise of Nations - Gerard Tellis
2018-05-30

Over the last 2,000 years, critical innovations have transformed small regions into global powers. But these powers have faded when they did not embrace the next big innovation. Gerard J. Tellis and Stav Rosenzweig argue that openness to new ideas and people, empowerment of individuals and competition are key drivers in the development and adoption of transformative innovations. These innovations, in turn, fuel economic growth, national dominance and global leadership. In *How Transformative Innovations Shaped the Rise of Nations*, Tellis and Rosenzweig examine the transformative qualities of concrete in Rome; swift equine warfare in Mongolia; critical navigational innovations in the golden ages of Chinese, Venetian, Portuguese and Dutch empires; the patent system and steam engine in Britain; and mass production in the United States of America.

Reinforcement of Rubber - Shinzo Kohjiya
2020-04-01

This book presents the most recent description of rubber reinforcement, focusing on the network-like structure formation of nanofiller in the rubber matrix under the presence of bound rubber. The resultant filler network is visualized by electron tomography applied to rubber. In the case of natural rubber, the self-reinforcement effect is uniquely functioning, and new template crystallization is suggested. Here, the crystallites are also believed to arrange themselves in a network-like manner. These results are of great use, particularly for engineers, in designing rubber reinforcement.

Governing Knowledge Commons - Brett M. Frischmann
2014

"Governing Knowledge Commons argues

that innovation policymaking should be based on a deeper understanding of what makes commons institutions work. It borrows from and builds on Elinor Ostrom's Nobel Prize-winning research on natural resource commons to propose a case study framework adapted to the unique attributes of knowledge and information. Eleven contributed case studies and two theoretical responses explore knowledge commons across a wide variety of scientific and cultural domains"--Unedited summary from book cover.

The Digital Hand - James W. Cortada
2005-11-03

The Digital Hand, Volume 2, is a historical survey of how computers and telecommunications have been deployed in over a dozen industries in the financial, telecommunications, media and entertainment sectors over the past half century. It is part of a sweeping three-volume description of how management in some forty industries embraced the computer and changed the American economy. Computers have fundamentally changed the nature of work in America. However it is difficult to grasp the full extent of these changes and their implications for the future of business. To begin the long process of understanding the effects of computing in American business, we need to know the history of how computers were first used, by whom and why. In this, the second volume of *The Digital Hand*, James W. Cortada combines detailed analysis with narrative history to provide a broad overview of computing's and telecommunications' role in over a dozen industries, ranging from Old Economy sectors like finance and publishing to New Economy sectors like digital photography and video games. He also devotes considerable attention to the rapidly changing media and entertainment industries

which are now some of the most technologically advanced in the American economy. Beginning in 1950, when commercial applications of digital technology began to appear, Cortada examines the ways different industries adopted new technologies, as well as the ways their innovative applications influenced other industries and the US economy as a whole. He builds on the surveys presented in the first volume of the series, which examined sixteen manufacturing, process, transportation, wholesale and retail industries. In addition to this account, of computers' impact on industries, Cortada also demonstrates how industries themselves influenced the nature of digital technology. Managers, historians and others interested in the history of modern business will appreciate this historical analysis of digital technology's many roles and future possibilities in an wide array of industries. The Digital Hand provides a detailed picture of what the infrastructure of the Information Age really looks like and how we got there.

Supersizing Science - Niki Vermeulen 2010-10

In recent years there has been a clear rise in scientific collaboration, as well as in studies on the subject. While most scholars examine disciplines traditionally known to be collaborative, such as physics and space research, this book focuses on biology. It investigates the growing collaboration in the life sciences, or the emergence of what is called 'big biology'. While the Human Genome Project is often presented as the first large-scale research project in biology, cooperation in the life sciences has a longer history. A comparison between centralised 'big physics' and 'big biology' reveals how the latter has a

networked structure, which evolved in interaction with the integration of information and communication technologies. By concentrating on the construction of these networks, three contemporary large-scale research collaborations are analysed: the Census of Marine Life that aims to make an inventory of life in the oceans, the Silicon Cell initiative that wants to design a replica of a cell in a computer, and the VIRGO consortium, which investigates host-virus interaction to develop a new therapy against influenza. This book demonstrates how the process of making science bigger, or the 'supersizing of science', transforms the ways in which science is organised while it also changes the work of scientists involved. As such, this has both scholarly and professional implications for the next generation of scientists.

Urban Machinery - Mikael Hård 2008
Urban Machinery investigates the technological dimension of modern European cities, vividly describing the most dramatic changes in the urban environment over the last century and a half. Written by leading scholars from the history of technology, urban history, sociology and science, technology, and society, the book views the European city as a complex construct entangled with technology. The chapters examine the increasing similarity of modern cities and their technical infrastructures (including communication, energy, industrial, and transportation systems) and the resulting tension between homogenization and cultural differentiation. The contributors emphasize the concept of circulation - the process by which architectural ideas, urban planning principles, engineering concepts, and societal models spread across Europe as well as from the United States to Europe.

They also examine the parallel process of appropriation--how these systems and practices have been adapted to prevailing institutional structures and cultural preferences. *Urban Machinery*, with contributions by scholars from eight countries, and more than thirty illustrations (many of them rare photographs never published before), includes studies from northern and southern and from eastern and western Europe, and also discusses how European cities were viewed from the periphery (modernizing Turkey) and from the United States. Contributors Hans Buitter, Paolo Capuzzo, Noyan Dinçkal, Cornelis Disco, Pol Germuska, Mikael Hørd, Martina Heßler, Dagmara Jajiesniak-Quast, Andrew Jamison, Per Lundin, Thomas J. Misa, Dieter Schott, Marcus Stippak. Mikael Hørd is Professor of History at Darmstadt University of Technology. His books include *The Intellectual Appropriation of Technology: Discourses on Modernity, 1900-1939* (coedited with Andrew Jamison; MIT Press, 1998). Thomas J. Misa is ERA-Land Grant Professor of the History of Technology at the University of Minnesota, where he directs the Charles Babbage Institute. His books include *Modernity and Technology* (coedited with Philip Brey and Andrew Feenberg; MIT Press, 2003).

Cultures of Knowledge - Dagmar Schäfer 2011-10-28

Identifying four spheres of knowledge culture in the history of technology in China, this book offers an introduction to the transmission of knowledge and detailed contextual descriptions of individual technologies in China such as porcelain, silk, and agriculture.

Pure Adulteration - Benjamin R. Cohen 2022-01-21

Benjamin R. Cohen uses the pure food crusades at the turn of the twentieth century to provide a captivating

window onto the origins of manufactured foods in the United States. In the latter nineteenth century, extraordinary changes in food and agriculture gave rise to new tensions in the ways people understood, obtained, trusted, and ate their food. This was the Era of Adulteration, and its concerns have carried forward to today: How could you tell the food you bought was the food you thought you bought? Could something manufactured still be pure? Is it okay to manipulate nature far enough to produce new foods but not so far that you question its safety and health? How do you know where the line is? And who decides? In *Pure Adulteration*, Benjamin R. Cohen uses the pure food crusades to provide a captivating window onto the origins of manufactured foods and the perceived problems they wrought. Cohen follows farmers, manufacturers, grocers, hucksters, housewives, politicians, and scientific analysts as they struggled to demarcate and patrol the ever-contingent, always contested border between purity and adulteration, and as, at the end of the nineteenth century, the very notion of a pure food changed. In the end, there is (and was) no natural, prehuman distinction between pure and adulterated to uncover and enforce; we have to decide. Today's world is different from that of our nineteenth-century forebears in many ways, but the challenge of policing the difference between acceptable and unacceptable practices remains central to daily decisions about the foods we eat, how we produce them, and what choices we make when buying them.

Science and Technology in World History - James E. McClellan III 2015-12-15

Arguably the best general history of science and technology ever published. Tracing the relationship

between science and technology from the dawn of civilization to the early twenty-first century, James E. McClellan III and Harold Dorn's bestselling book argues that technology as "applied science" emerged relatively recently, as industry and governments began funding scientific research that would lead directly to new or improved technologies. McClellan and Dorn identify two great scientific traditions: the useful sciences, which societies patronized from time immemorial, and the exploration of questions about nature itself, which the ancient Greeks originated. The authors examine scientific traditions that took root in China, India, and Central and South America, as well as in a series of Near Eastern empires in late antiquity and the Middle Ages. From this comparative perspective, McClellan and Dorn survey the rise of the West, the Scientific Revolution of the seventeenth century, the Industrial Revolution, and the modern marriage of science and technology. They trace the development of world science and technology today while raising provocative questions about the sustainability of industrial civilization. This new edition of *Science and Technology in World History* offers an enlarged thematic introduction and significantly extends its treatment of industrial civilization and the technological supersystem built on the modern electrical grid. The Internet and social media receive increased attention. Facts and figures have been thoroughly updated and the work includes a comprehensive Guide to Resources, incorporating the major published literature along with a vetted list of websites and Internet resources for students and lay readers.

Technology in Modern German History -

Karsten Uhl 2022-01-27

People often associate postwar Germany with technology and with its products of mass consumption, such as luxury cars. Even pop music, most notably Kraftwerk (literally 'power station') with songs such as *Autobahn*, *Radioactivity* or *We are the Robots*, disseminates the stereotype of a close link between German culture and technology. *Technology in Modern German History* explores various forms of technology in 200 years of German history and explains how technology has been fundamental to the shaping of modern Germany. The book investigates the role technology played in transforming Germany's culture, society and politics during the 19th and 20th centuries. Key topics covered include the different stages of industrialization, the growth of networked cities, and the triumph of a teleological narrative of technology as progress. Moreover, it provides a critical revision of the history of high technology which reveals how high-tech euphoria determined certain paths in history regardless of whether the respective technology proved to be successful. In its second part, the volume introduces new avenues in scholarship. Karsten Uhl examines neglected areas, such as rural technologies or the often-overlooked importance of everyday technologies: How did consumers or workers use new technologies? How did they appropriate and modify them? Lastly, the book considers the final decades of the 20th century and asks if they provided a significant new quality of technological change: To what degree and effects did computerization transform professional and private life in Germany? In culture and politics, reinforced by the German variety of environmentalism, the idea of progress was challenged, as the once prevailing vision of progress

gave way to new apprehensions of uncertainty evident to this day. Technology in Modern German History brings fascinating insight into a much neglected area of German history for students and scholars alike.

Technoculture - Debra Benita Shaw
2008-07-01

We live in a world where science and technology shape the global economy and everyday culture, where new biotechnologies are changing what we eat and how we can reproduce, and where email, mobiles and the internet have revolutionised the ways we communicate with each other and engage with the world outside

us. *Technoculture: The Key Concepts* explores the power of scientific ideas, their impact on how we understand the natural world and how successive technological developments have influenced our attitudes to work, art, space, language and the human body. Throughout, the lively discussion of ideas is illustrated with provocative case studies - from biotech foods to life-support systems, from the Walkman and iPod to sex and cloning, from video games to military hardware. Designed to be both provocative and instructive, *Technoculture: The Key Concepts* outlines the place of science and technology in today's culture.