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A Kids Book about Technology Women in Tech The Book How Technology Works Oats Nutrition and Technology Technology and the City The Really Useful Primary Design and Technology Book The Nature of Technology The REGTECH Book Digital Technology and the Practices of Humanities Research The Book of Invisible Technology Nihilism and Technology Brickli on Technology Explodity Psychology of Technology Advance in Healthcare Technology Calm Technology The Right Way to Select Technology Teenagers and Technology Time, Progress Growth and Technology The Technology Trap Jewelry Concepts & Technology The INSURTECH Book Technology and Society A History of Chinese Science and Technology Computers, Schools and Students Business Information Systems and Technology 4.0 Tiger Technology Blind Spot Process Analytical Technology The Social Construction of Technological Systems, anniversary edition Persuasive Technology Top 45 Interesting Facts about Technology Fundamentals of Particle Technology Introduction to Particle Technology Aramis, Or The Love of Technology Megatech Manual of Animal Technology The Loop Technology Assessment in Practice and Theory

The shadow of a tree in upstate New York. A hotel room in Switzerland. A young stranger in the Congo. In Blind Spot,

readers will follow Teju Cole's inimitable artistic vision into the visual realm, as he continues to refine the voice and intellectual obsessions that earned him such acclaim for *Open City*. In more than 150 pairs of images and surprising, lyrical text, Cole explores his complex relationship to the visual world through his two great passions: writing and photography. *Blind Spot* is a testament to the art of seeing by one of the most powerful and original voices in contemporary literature.

*Manual of Animal Technology* is a comprehensive and authoritative guide to the care of animals used in scientific procedures. Legal and welfare issues are covered as well as the husbandry of mammals and birds used in scientific studies. Individual chapters have been written by leading experts: explains the law governing scientific procedures using animals; describes best practice in breeding and husbandry of laboratory animals; outlines the care of animals during and following experimental procedures. Specifically designed to be a student text and a reference manual, clearly illustrated and sponsored by the Institute of Animal Technology.

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.

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 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 ST 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. A considerable amount of research has emerged in recent years on the science, technology and health effects of oats but, until now, no book has gathered this work together. *Oats Nutrition and Technology* presents a comprehensive and integrated overview of the coordinated activities of nutritionists, plant scientists, food scientists, policy makers, and the private sector in developing oat products for optimal health. Readers will gain a good understanding of the value of best agricultural production and processing practices that are important in the oats food system. The book reviews agricultural practices for the production of oat products, the food science involved in the

processing of oats, and the nutrition science aimed at understanding and advancing the health effects of oats and how they can affect nutrition policies. There are individual chapters that summarize oat breeding and processing, the many bioactive compounds that oats contain, and their health benefits. With respect to the latter, the health benefits of oats and oat constituents on chronic diseases, obesity, gut health, metabolic syndromes, and skin health are reviewed. The book concludes with a global summary of food labelling practices that are particularly relevant to oats. *Oats Nutrition and Technology* offers in-depth information about the life cycle of oats for nutrition, food and agricultural scientists and health practitioners interested in this field. It is intended to provoke thought and stimulate readers to address the many research challenges associated with the oat life cycle and food systems. How can you design technology that becomes a part of a user's life and not a distraction from it? This practical book explores the concept of calm technology, a method for smoothly capturing a user's attention only when necessary, while calmly remaining in the background most of the time. You'll learn how to design products that work well, launch well, are easy to support, easy to use, and remain unobtrusive. Author Amber Case presents ideas first introduced by researchers at Xerox PARC in 1995, and explains how they apply to our current technology landscape, especially the Internet of Things. This book is ideal for UX and product designers, managers, creative directors, and developers. You'll learn: The importance and challenge of designing technology that respects our attention. Principles of calm design—peripheral attention, context, and

ambient awareness Calm communication patterns—improving attention through a variety of senses Exercises for improving existing products through calm technology Principles and patterns of calm technology for companies and teams The origins of calm technology at Xerox PARC Technology moving fast - so where will it have taken us by 2050? How will it change the way we live? And how far are we willing to let it go? In Megatech, distinguished scientists, industry leaders, star academics and acclaimed science-fiction writers join journalists from The Economist to explore answers to these questions and more. Twenty experts in the field, including Nobel prize-winner Frank Wilczek, Silicon Valley venture-capitalist Ann Winblad, philanthropist Melinda Gates and science-fiction author Alastair Reynolds identify the big ideas, fantastic inventions and potentially sinister trends that will shape our future. Join them to explore a brave new world of brain-computer interfaces, grown cruelty-free meat, knitted cars and guided bullets. The writers predict the vast changes that technology will bring to everything from food production to health care, energy output, manufacturing and the military balance. They also consider the impact on jobs, and how we can prepare for the opportunities as well as the dangers, that await. Thought-provoking, engaging and full of insight from the forefront of tech innovation, Megatech is essential reading for anyone who wants to understand tomorrow's world. Teenagers and Technology offers a positive overview of how technology affects the lives of young people. The definitive reference for jewelry makers of all levels of ability--a complete, profusely illustrated guide to design, materials, and techniques, as well as a fascinating exploration

of jewelry-making throughout history. The artists' books made in Russia between 1910 and 1915 are like no others. Unique in their fusion of the verbal, visual, and sonic, these books are meant to be read, looked at, and listened to. Painters and poets—including Natalia Goncharova, Velimir Khlebnikov, Mikhail Larionov, Kazimir Malevich, and Vladimir Mayakovsky— collaborated to fabricate hand-lithographed books, for which they invented a new language called zaum (neologism meaning “beyond the mind”), which was distinctive in its emphasis on “sound as such” and its rejection of definitional meaning. At the heart of this volume are close analyses of two of the most significant and experimental futurist books: *Mirskontsa* (Worldbackwards) and *Vzorval'* (Explodity). In addition, Nancy Perloff examines the profound differences between the Russian avant-garde and Western art movements including futurism, and she uncovers a wide-ranging legacy of the midcentury global movement of sound and concrete poetry (the Brazilian Noigandres group, Ian Hamilton Finlay, and Henri Chopin), contemporary Western conceptual art, and the artist's book. Sound recordings of zaum poems featured in this book are available at [www.getty.edu](http://www.getty.edu). Technological advancement affects almost all areas of human life. Rapid digitization, increased mobility, new biotechnologies, and nanotechnology deeply influence, amongst others, industrial production, entertainment, work, military affairs, and individual life. Besides overwhelmingly positive effects on wealth, comfort, innovation, and development, this also raises questions of unintended effects, of tensions with democracy, of the role of citizens, and of its sustainability facing environmental issues.

Tools and procedures are needed to cope with this challenging situation. Technology assessment (TA) has been developed more than fifty years ago to enable science, the economy, and society to harvest the potential of new technology to the maximum extent possible and to deal responsibly with possible adverse effects. It was developed more than 50 years ago in the U.S. Congress and has diversified considerably in the meantime. Parliamentary TA in many European states and at the international level, participatory TA at the local and regional levels worldwide, and TA as part of engineering processes are among the most relevant fields today. Technology assessment is a growing field of interdisciplinary research and scientific policy advice. This volume (a) gives an overview of motivations of TA, its history and its current practices, (b) develops a fresh theoretical perspective on TA rooted in social theory and philosophy, and (c) draws conclusions from the theoretical perspective for the further development of TA's practices. It provides the first comprehensive view on the growing field of TA at the international level. This eye-opening narrative journey into the rapidly changing world of artificial intelligence reveals the dangerous ways AI is exploiting the unconscious habits of our minds—and the real threat it poses to humanity. Artificial intelligence is going to change the world as we know it. But the real danger isn't some robot that's going to enslave us: It's our own brain. Our brains are constantly making decisions using shortcuts, biases, and hidden processes—and we're using the same techniques to create technology that makes choices for us. In *The Loop*, award-winning science journalist Jacob Ward reveals how we are poised to build all of our worst instincts

our AIs, creating a narrow loop where each generation has fewer, predetermined, and even dangerous choices. Taking on a world tour of the ongoing, real-world experiment of artificial intelligence, *The Loop* illuminates the dangers of writing dangerous human habits into our machines. From a biometric surveillance state in India that tracks the movement of over a billion people, to a social media control system in China that punishes deviant friendships, to the risky multiple choice simplicity of automated military action, Ward travels the world speaking with top experts confronting the perils of this research. Each stop reveals how the most obvious patterns of our behavior—patterns an algorithm will use to make decisions about what's best for us—are not the ones we want to perpetuate. Just as politics, marketing, and finance have all exploited the weaknesses of our human programming, artificial intelligence is poised to use the patterns of our lives to manipulate us. *The Loop* is a call to look at ourselves more clearly—our most creative ideas, our most destructive impulses, the ways we help and hurt one another—so we can put only the best parts of ourselves into the thinking machines we create.

*A History of Chinese Science and Technology* (Volumes 1, 2 & 3) presents 44 individual lectures, beginning with *Ancient Chinese Science and Technology in the Process of Human Civilizations* and an *Overview of Chinese Science and Technology*, and continuing with in-depth discussions of several issues in the *History of Science and the Needham Puzzle*, interspersed with topics of *Astronomy, Arithmetic, Agriculture and Medicine, The Four Great Inventions*, and various technological areas closely related to clothing, food, shelter and transportation. This book

is the most authoritative work on the history of Chinese Science and Technology. It is the Winner of the China Book Award, Shanghai Book Award (1st prize), and the Classical China International Publishing Project (GAPP, General Administration of Press and Publication of China) and offers an essential resource for academic researchers and non-experts alike. It originated with a series of 44 lectures presented to Chinese leaders, which received very positive feedback. Written by top Chinese scholars in their respective fields from the Institute for the History of Natural Sciences, Chinese Academy of Sciences and many other respected Chinese organizations, the book is intended for scientists, researchers and postgraduate students working in the history of science, philosophy of science and technology, and related disciplines. Yongxiang Lu is a professor, former president and member of the Chinese Academy of Sciences (CAS) and Chinese Academy of Engineering (CAE), and Vice Chairman of the National Congress of China. In a world that divides us, technology creates connection. Cell phones, e-mail, digital cameras, personal Web sites—they all join us, however tenuously, to what we value. Is connectivity what we're willing to pay for? Should technology be our servant or a tool that helps us do other things? What can we really learn from Napster? What would intelligent standards for touch-screen user interface look like? How does technology evolve, and what drives that evolution? For Dan Bricklin, technology cannot exist independently of the lives and needs of those who use it. For more than a decade he has shared his thoughts on this essential interdependence through blogs, podcasts, and essays. This volume compiles those

observations, putting together case histories and new reflections for a fascinating study of how people and technology affect each other. Whether you're a software developer or a student of human nature, you'll find yourself drawn into this most intriguing discourse—because you are its subject. There are 45 Interesting Technology Facts are mentioned in this book. And these will be very short and to the point facts. You will be amazed by knowing these facts. The definitive compendium of the Insurance Digital Revolution From slow beginnings in 2014, InsurTech has captured US\$7billion in investment since 2010 — a 10% annual compound growth rate is predicted through at least 2020. Three in four insurance companies believe some part of their business is at risk of disruption and understanding the trends, drivers and emerging technologies behind Insurance Digital Revolution is a business-critical priority for all growth-minded firms. The InsurTech Book offers essential updates, critical thinking and actionable insight — globally — from startups, incumbents, investors, tech companies, advisors and other partners in this evolving ecosystem, in one volume. For some, Insurance is either facing an existential threat; for others, the sector is on the brink of transforming itself. Either way, business models, value chains, customer understanding and engagement, organisational structures and even what Insurance is for, is never going to be the same. Be informed, be part of it. Learn from diverse experiences, mindsets and applications of technologies Discover new ways of defining and grasping growth opportunities Get the inside track from innovators, disruptors and incumbents Be updated on the evolution of InsurTech, why it is happening and how it will evolve Explore

visions of the future of Insurance to help shape yours The InsurTech Book is your indispensable guide to a sector in transformation. The creation of high technology industries East Asia, such as the semiconductor industry, has been achieved in the face of enormous obstacles. The countries concerned, such as Korea, Taiwan, Singapore and Malaysia, industrialized through labor-intensive, low-cost industries. Knowledge-intensive industries such as semiconductors are much more demanding. The book develops a plausible account of this industrial transformation, based on the central notion "technology leverage" and the distinctive institutions established to facilitate the process. It concludes that management of technology diffusion is as important a form of wealth creation as management of innovation. The Regulatory Technology Handbook The transformational potential of RegTech has been confirmed in recent years with US\$1.2 billion invested in start-ups (2017) and an expected additional spending of US\$100 billion by 2020. Regulatory technology not only provide efficiency gains for compliance and reporting functions, it will radically change market structure and supervision. This book, the first of its kind, is providing a comprehensive and invaluable source of information aimed at corporates, regulators, compliance professionals, start-ups and policy makers. The REGTECH Book brings into a single volume the curated industry expertise delivered by subject matter experts. It serves as a single reference point to understand the RegTech eco-system and its impact on the industry. Readers will learn foundational notions such as: • The economic impact of digitization and datafication of

regulation • How new technologies (Artificial Intelligence, Blockchain) are applied to compliance • Business use cases  
RegTech for cost-reduction and new product origination • 7  
future regulatory landscape affecting financial institutions,  
technology companies and other industries Edited by world  
class academics and written by compliance professionals,  
regulators, entrepreneurs and business leaders, the RegTec  
Book represents an invaluable resource that paves the way  
21st century regulatory innovation. Process Analytical  
Technology explores the concepts of PAT and its application  
the chemical and pharmaceutical industry from the point of  
view of the analytical chemist. In this new edition all of the  
original chapters have been updated and revised, and new  
chapters covering the important topics of sampling, NMR,  
fluorescence, and acoustic chemometrics have been added.  
Coverage includes: Implementation of Process Analytical  
Technologies UV-Visible Spectroscopy for On-line Analysis  
Infrared Spectroscopy for Process Analytical Applications  
Process Raman Spectroscopy Process NMR Spectroscopy:  
Technology and On-line Applications Fluorescent Sensing and  
Process Analytical Applications Chemometrics in Process  
Analytical Technology (PAT) On-Line PAT Applications of  
Spectroscopy in the Pharmaceutical Industry Future Trends  
PAT for Increased Process Understanding and Growing  
Applications in Biomanufacturing NIR Chemical Imaging This  
volume is an important starting point for anyone wanting to  
implement PAT and is intended not only to assist a newcomer  
the field but also to provide up-to-date information for those  
who practice process analytical chemistry and PAT. It is

relevant for chemists, chemical and process engineers, and analytical chemists working on process development, scale-up and production in the pharmaceutical, fine and specialty chemicals industries, as well as for academic chemistry, chemical engineering, chemometrics and pharmaceutical science research groups focussing on PAT. Review from the First Edition "The book provides an excellent first port of call for anyone seeking material and discussions to understand the area better. It deserves to be found in every library that serves those who are active in the field of Process Analytical Technology."—Current Engineering Practice Fundamentals of Particle Technology is designed to assist the understanding of how particulate materials behave during processing and is written with engineers and scientists, who are new to the subject, in mind. It is accessible, in both cost and style, and illustrated with numerous line diagrams. Most of the 16 chapters end with questions in multiple choice format. This helps problem decomposition and the reader can see each step required to arrive at an overall process solution. If the reader makes a mistake with any of the steps he, or she, usually does not see their answer and will immediately know where they have gone wrong. The aspects of Particle Technology covered include: particle characterisation, solid/liquid and solid/gas separations, fluidisation, flow of (and in) dispersions, powder mixing, storage, hazards, crushing and colloidal interaction. Extensive Internet support and referencing is provided. The teaching style adopted is the result of experience gained from presenting the subject for over 30 years at both undergraduate and postgraduate level. It has long been recognised that the

technology industry is not diverse and gender inclusive. In the UK, the numbers of women in technology roles has remained stubbornly beneath 20% for the last twenty years. With this we hope to help address that. This guide to addressing the gender imbalance offers expertise, initiatives and true stories to support those wishing to bring greater gender diversity into the workplace. It aims to inform regarding background, theory and policy; advise on concrete actions that can be undertaken, and to be an exemplar for companies, organisations, establishments and campaigns in the form of real world case studies. The printed book is one of life's most frequently encountered technologies. Historian Nicole Howard provides a comprehensive survey of the evolution of this technology, tracing its development across many centuries and cultures. "No other technology in human history, declares Howard, has had the impact of this invention. By examining the book as a technology, Howard reveals how profoundly information and media have shaped history and how vital the technology of the book has been to cultural and intellectual change. This engaging study extends from clay tablets and rolls of papyrus to bound folio sheets, from inks and scripts to lead type and printing presses, from the Linotype machine to the laptop. In cultural in scope, it examines innovations in the production and manufacture of books from the Middle and Far East, Europe and the Americas. Howard recounts printing techniques from Gutenberg's first press to 21st-century electronic publishing. Howard's broad overview and accessible writing style make this book ideal for students and bibliophiles alike. The volume includes a glossary of terms, a timeline of important events

a selected bibliography of useful resources for further information. Have you ever asked yourself how the inventions, gadgets, and devices that surround us actually work? Discover the hidden workings of everyday technology with this graphic guide. *How Technology Works* demystifies the machinery that keeps the modern world going, from simple objects such as fasteners and can openers to the latest, most sophisticated devices of the information age, including smart watches, personal digital assistants, and driverless cars. It includes inventions that have changed the course of history, like the internal combustion engine, as well as technologies that may hold the key to our future survival, including solar cells and new kinds of farming to feed a growing population. All the way through the book, step-by-step explanations are supported by simple and original graphics that take devices apart and show you how they work. The opening chapter explains principles that underpin lots of devices - from basic mechanics to electricity to digital technology. From there on, devices are grouped by application - such as the home, transport, and computing - making them easy to find and placing similar devices side by side. *How Technology Works* is perfect for anyone who didn't have a training in STEM subjects at school or is simply curious about how the modern world works. Improving healthcare and staying healthy is one of the most discussed and important issues in our society. Technology has played and will play an important role in many aspects of the healthcare system, and it offers new and better ways to solve key health problems of the new century. This book describes the valued contributions of technology for improving hospital and

home healthcare, and gives a perspective on how they will influence critical aspects of future medical care. It provides an overview and discussion of trends, presents the state-of-the-art of important research areas, and highlights recent breakthrough results in selected fields, giving an outlook on game-changing developments in the coming decades. The material is arranged in 6 parts and a total of 31 chapters. The healthcare areas addressed are: General advances and trends in healthcare technology, diagnostic imaging, integration of diagnostic imaging and therapy, molecular medicine, medical informatics, and technology and personal healthcare. This book brings together the philosophies of technology and nihilism to investigate how we use technologies, from Netflix and Fitbit to Twitter and Google. It diagnoses how technologies are nihilistic and how our nihilism has become technological. Why do half of all technology projects fail? A major reason is that organizations often pick the wrong tools, leaving them digitally hamstrung from the start. This book offers a modern alternative to traditional waterfall approaches to selecting technology. You learn a practical, adaptive process that relies on realistic storytelling and hands-on testing to get the best fit for your enterprise. Discover how modern technology works all around us--a hands-on approach for kids Bluetooth brings beautiful music to your ears--but how, exactly? Using technology and building with technology are two different skill sets--and a twenty-first-century kid will need to understand both. The Book of Invisible Technology helps children--ages 8 to 12--learn how things work for kids in fun, hands-on ways. From the invisible Internet to driverless cars and drones, the

book shows you how things work for kids, using step-by-step experiments. Then apply your knowledge and learn how you may, one day, bring real and important change to our lives. Are you ready to solve some of Earth's biggest challenges with technology? The future needs you. In this book on how things work for kids you'll discover: Talk like a pro--Important tech-related words are highlighted in bold along with their definitions, in a virtual dictionary of how things work for kids. Hands-on--Nine applied experiments will inspire you to learn while doing--like taking apart and safely rebuilding an old keyboard or remote control. Think bigger--Discover how to brainstorm (meaning to openly generate ideas individually or a group) as you plan ways to positively influence our planet. Take a step toward being the next great scientist, engineer, or tech genius when you learn how things work for kids. An overview of the study of "captology"--the study of computer-mediated persuasive technologies--examines the integration of behavior altering techniques and information technology. This book addresses the current challenges of sustainable development, including its social, economic and environmental components. The author argues that we need to develop a new concept of time based on inter-generational solidarity, which focuses both on the long- and the short term. The evolution of man's notions of time are analyzed from prehistory to modern times, showing how these concepts shape our worldviews, our ecological paradigms and our equilibrium with our planet. Practical approaches to dealing with the major medium- and long term sustainability challenges of the 21st century are presented and discussed. This is a thought provoking and timely book that

addresses the main global socioeconomic and environmental challenges facing the current and future generations, using science-based analysis and perspectives. It presents an historical narrative of the advent of progress, economic growth and technology, and discusses the structural changes needed to create sustainable pathways. It provides hope for our future Earth, mankind's common home. António Guterres, Secretary General of the United Nations This is an amazing, almost mind-boggling book. The author takes a look at the true whole, i.e. the development of the human enterprise since its very beginning. This enterprise is evidently a possibility under the boundary conditions of cosmological dynamics and natural evolution, but evidently also a highly improbable one. It is a miracle that the Earth system in its present form exists and happens to support a technical civilization. Will this civilization last long, will it transform itself into something more exceptional, or will it perish in disgrace? Santos dares to address these grandest of all questions, equipped with a unique transdisciplinary wisdom drawing on physics, cybernetics, geology, biology, economics, anthropology, history, and philosophy. And he dares to dive into the deepest abysses of thinking, where categorial monsters like time and progress dwell. Thereby, he takes us on a fascinating journey, during which we perceive and grasp things we have never seen and understood before. One of the best essays I have ever read. John Schellnhuber, founding director of the Potsdam Institute for Climate Impact Research (PIK) and former chair of the German Advisory Council on Global Change This unique treatise expands on the philosophy of technology to argue

psychology of technology based on the complex relationships between psychology, biology and technology, especially in the light of our relationships with our digital devices, our online lives, and our human experience. Drawing from disciplines ranging from philosophy and evolution to cognition and neuroscience, it examines myriad aspects of the brain's development: the cognitive, sensory, and motor processes that enable technological progress and its resulting efficiencies and deficiencies along with our discomforts and pleasures. These experiences are key to behavioral and affective processes in technology, manifest in such diverse phenomena as multitasking, the shift in tech design from ergonomics to hedonomics, and the many types of online problem behavior. Through these rich pages, readers can understand more deeply the history and future of human adjustment and adaptation in an environment intertwined with technology—and, with the ascendancy of video games and virtual reality, new concepts of the human self. Among the topics covered: Could we have remained a tech-devoid society? Technology, ergonomics and the non-executive functions of our body. New directions in brain-computer interface. From avatars and agents to virtual reality technology."br> On measuring affective responses to objects. Psychology, technology, ethics, and culture. A timely lens on a field that will grow in importance as it shapes our existence, *Psychology of Technology* will be read and discussed by not only psychologists, social scientists, and behavioral scientists, but also by technology designers and developers and those in biotechnology. This book discusses digitalization trends and their concrete applications in business and societal

contexts. It summarizes new findings from research, teaching, and management activities comprising digital transformation in business, the representation of knowledge, human-computer interaction and business optimization. The trends discussed include artificial intelligence, virtual reality, robotics, blockchain, and many more. Professors and researchers who conduct research and teach at the interface between academia and business present the latest advances in their field. The book adopts the philosophy of applied sciences and combines both rigorous research and practical applications. As such, it addresses the needs of both professors and researchers, who are constantly seeking inspiration, and of managers seeking to harness the potential of the latest trends to take their business to the next level. Readers will find answers to pressing questions that arise in their daily work. The contributions in this volume map out how technologies are used and designed to plan, maintain, govern, demolish, and destroy the city. The chapters demonstrate how urban technologies shape, and are shaped by, fundamental concepts and principles such as citizenship, publicness, democracy, and nature. The many authors here explore how to think of technologically mediated urban space as part of the human condition. The volume will thus contribute to the much-needed discussion on technology-enabled urban futures from the perspective of the philosophy of technology. This perspective also contributes to the discussion and practice of making cities 'smart' and just. This collection appeals to students, researchers, and professionals within the fields of philosophy of technology, urban planning, and engineering. Bruno Latour has written a unique and wonderful tale of a

technological dream gone wrong. The story of the birth and death of Aramis—the guided-transportation system intended for Paris—is told in this thought-provoking and fictional account from several different parties: an engineer and his professor; company executives and elected officials; a sociologist; and finally Aramis itself, who delivers a passionate plea on behalf of technological innovations that risk being abandoned by their makers. As the young engineer and professor follow Aramis's trail—conducting interviews, analyzing documents, assessing evidence—perspectives keep shifting: the truth is revealed to be multilayered, unascertainable, comprising an array of possibilities worthy of Rashomon. This charming and profound book, part novel and part sociological study, is Latour at his thought-provoking best.

The Really Useful Primary Design and Technology Book brings together essential subject knowledge and pedagogy to support and inspire those planning to teach D&T in the primary school. Offering comprehensive coverage of the 2014 National Curriculum, as well as exciting ideas that extend beyond it, the book is packed full of everything the teacher needs to be able to develop children's key skills and techniques, and a range of big and small projects to put them into practice. With crucial subject knowledge explained in detail, useful 'How To' guides at the end of each chapter reinforce the skills and technology covered with instructions on making a variety of models. Sets of lesson plans include information on the resources needed to support both more and less able children, and assessment guidance, 'Top Tips' and 'Things to Consider' provide extra help and inspiration. Key topics covered include: cooking and nutrition textiles and the

design cycle IT control and monitoring mechanisms structural electronic systems the roles and responsibilities of the DT assessment of D&T. The Really Useful Primary Design and Technology Book provides all the information a new teacher needs to be able to teach D&T confidently, and with valuable cross-curricular links and photocopiable templates, even experienced teachers and subject leaders will find fresh inspiration for their lessons. An anniversary edition of an influential book that introduced a groundbreaking approach to the study of science, technology, and society. This pioneering book, first published in 1987, launched the new field of social studies of technology. It introduced a method of inquiry—social construction of technology, or SCOT—that became a key part of the wider discipline of science and technology studies. The book helped the MIT Press shape its STS list and inspired the Insiders Technology series. The thirteen essays in the book tell stories about such varied technologies as thirteenth-century galley engines, eighteenth-century cooking stoves, and twentieth-century missile systems. Taken together, they affirm the fruitfulness of an approach to the study of technology that gives equal weight to technical, social, economic, and political questions, and they demonstrate the illuminating effects of the integration of empirical and theory. The approaches in this volume—collectively called SCOT (after the volume's title) have since broadened their scope, and twenty-five years after the publication of the book, it is difficult to think of a technology that has not been studied from a SCOT perspective and impossible to think of a technology that cannot be studied that way. From the Industrial Revolution to the age of artificial intelligence, Carl Benedikt

Frey offers a sweeping account of the history of technological progress and how it has radically shifted the distribution of economic and political power among society's members. As the author shows, the Industrial Revolution created unprecedented wealth and prosperity over the long run, but the immediate consequences of mechanization were devastating for large swaths of the population. These trends broadly mirror those of our current age of automation. But, just as the Industrial Revolution eventually brought about extraordinary benefits to society, artificial intelligence systems have the potential to do the same. Benedikt Frey demonstrates that in the midst of another technological revolution, the lessons of the past can help us to more effectively face the present. --From publisher's description.

Particle technology is a term used to refer to the science and technology related to the handling and processing of particles and powders. The production of particulate materials, with controlled properties tailored to subsequent processing and applications, is of major interest to a wide range of industries, including chemical and process, food, pharmaceuticals, minerals and metals companies and the handling of particles in gas and liquid solutions is a key technological step in chemical engineering. This textbook provides an excellent introduction to particle technology with worked examples and exercises. Based on feedback from students and practitioners worldwide, it has been newly edited and contains new chapters on slurry transport, colloids and particles, size enlargement and the health effects of fine powders. Topics covered include: Characterization (Size Analysis) Processing (Granulation, Fluidization) Particle

Formation (Granulation, Size Reduction) Storage and Transport (Hopper Design, Pneumatic Conveying, Standpipes, Slurry Flow) Separation (Filtration, Settling, Cyclones) Safety (Fire and Explosion Hazards, Health Hazards) Engineering the Properties of Particulate Systems (Colloids, Respirable Drug Slurry Rheology) This book is essential reading for undergraduate students of chemical engineering on particle technology courses. It is also valuable supplementary reading for students in other branches of engineering, applied chemistry, physics, pharmaceuticals, mineral processing and metallurgy. Practitioners in industries in which powders are handled and processed may find it a useful starting point for gaining an understanding of the behavior of particles and powders. Review of the First Edition taken from High Temperatures - High pressures 1999 31 243 - 251 ". This is a modern textbook that presents clear-cut knowledge. It can be successfully used both for teaching particle technology at universities and for individual study of engineering problems in powder processing." How have schools been affected by the introduction of computer technology, and has it changed the school life and experience of students? This book uses research from both large and small secondary schools, including those specializing in technology and those with higher numbers of pupils with special needs, to look at the results of all the projects, initiatives and investment in ICT. The authors found that the ambitious expectations fell short of reality. Their research into the reasons for this shortfall can help teachers understand and develop ways to make the best use of computers in their schools. It is equally informative for educational researchers and policy

makers. How does technology impact research practices in humanities? How does digitisation shape scholarly identity? How do we negotiate trust in the digital realm? What is scholarship, what forms can it take, and how does it acquire authority? This diverse set of essays demonstrate the importance of asking such questions, bringing together established and emerging scholars from a variety of disciplines, at a time when data is increasingly being incorporated as an input and output in humanities sources and publications. Major themes addressed include the changing nature of scholarly publishing in a digital age, the different kinds of 'gate-keepers' for scholarship, and the difficulties of effectively assessing the impact of digital resources. The essays bring theoretical and practical perspectives into conversation, offering readers not only comprehensive examinations of past and present discourse on digital scholarship, but tightly-focused case studies. This timely volume illuminates the different forces underlying the shifting practices in humanities research today, with especial focus on how humanists take ownership of, and are empowered by, technology in unexpected ways. *Digital Technology and Practices of Humanities Research* is essential reading for scholars, students, and general readers interested in the changing culture of research practices in the humanities, and the future of the digital humanities on the whole. In "The Nature of Technology", ground-breaking economist W. Brian Arthur explores the extraordinary way in which the technology that surrounds us and allows us to live our modern lives has actually been developed. Rather than coming from a series of one-off inventions, almost all the technology we use today

comes from previous developments: these technologies are being created, but are instead evolving. With fascinating examples, from laser printers to powerplants, Arthur reveals how our own problem-solving skills and creative vision can evolve alongside these technologies, and how this understanding can even improve our understanding of the wider world

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