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Ethics, Technology, and
Engineering Routledge
Examines the overall



process for ensuring tank car design safety and, more specifically, whether all tank cars carrying hazardous materials should be equipped with special safety devices, known as head shields, to prevent tank car head (end) punctures.

Design Is The Problem

Springer

Mobility is fundamental to economic and social activities such as commuting, manufacturing, or

supplying energy. Each movement has an origin, a potential set of intermediate locations, a destination, and a nature which is linked with geographical attributes. Transport systems composed of infrastructures, modes and terminals are so embedded in the socio-economic life of individuals, institutions and corporations that they are often invisible to the consumer. This is paradoxical as the perceived invisibility of transportation is derived from its efficiency. Understanding how mobility is linked with geography is main the purpose of this book. The third edition of The Geography of Transport Systems has been revised and updated to provide an overview of the spatial aspects of transportation. This text provides greater discussion of security, energy, green logistics, as well as new and updated case studies, a revised content structure, and

new figures. Each chapter covers a specific conceptual dimension including networks, modes, terminals, freight transportation, urban transportation and environmental impacts. A final chapter contains core methodologies linked with transport geography such as accessibility, spatial interactions, graph theory and Geographic Information Systems for transportation (GIS-T). This book provides a comprehensive and

accessible introduction to the field, with a broad overview of its concepts, methods, and areas of application. The accompanying website for this text contains a useful additional material, including digital maps, PowerPoint slides, databases, and links to further reading and websites. The website can be accessed at: <http://people.hofstra.edu/geotrans> This text is an essential resource for undergraduates studying transport geography, as well as

those interest in economic and urban geography, transport planning and engineering.

21st Century Sports Springer

This book constitutes selected papers from the 20th International Conference on Transport Systems Telematics, TST 2020, held in Kraków, Poland, in October 2020. The 34 full papers presented in this volume were carefully reviewed and selected from 97 submissions. They were organized in topical sections named: telematics in road transport - general view; telematics in road transport - details in applications.-

telematics in rail and marine transport; general about telematics.

Predictably Irrational Harper Collins

The Latest Advances in Universal Design Thoroughly updated and packed with examples of global standards and design solutions, Universal Design Handbook, Second Edition, covers the full scope of universal design, discussing how to develop media, products, buildings, and infrastructure for the widest range of human needs, preferences, and functioning. This pioneering work brings together a rich variety of expertise from around the world to discuss the extraordinary growth and changes in the universal design

movement. The book provides an overview of universal design premises and perspectives, and performance-based design criteria and guidelines. Public and private spaces, products, and technologies are covered, and current and emerging research and teaching are explored. This unique resource includes analyses of historical and contemporary universal design issues from seven different countries, as well as a look at future trends. Students, advocates, policy makers, and design practitioners will get a theoretical grounding in and practical reference on the physical and social roles of design from this definitive volume.

UNIVERSAL DESIGN HANDBOOK, SECOND

EDITION, COVERS: United Nations Convention on the Rights of Persons with Disabilities U.S. accessibility codes and standards, including the Americans with Disabilities Act (ADA) Life safety standards and guidelines Universal design implementations in Norway, Japan, France, Germany, Brazil, Italy and the Old City of Jerusalem Planning ADA implementation in public educational institutions Urban scale and mass transportation universal design Designing inclusive experiences, including outdoor play settings Office and workspace design Universal design in home building and remodeling Products and technologies, including autos, web access, media, and digital content

Universal design research initiatives, education, and performance assessments

Agricultural Value Chain Finance
Springer

Data Science and Big Data

Analytics is about harnessing the power of data for new insights.

The book covers the breadth of activities and methods and tools that Data Scientists use. The content focuses on concepts, principles and practical applications that are applicable to any industry and technology environment, and the learning is supported and explained with examples that you can replicate using open-source software. This book will help you: Become a contributor on a data science team

Deploy a structured lifecycle approach to data analytics problems Apply appropriate analytic techniques and tools to analyzing big data Learn how to tell a compelling story with data to drive business action Prepare for EMC Proven Professional Data Science Certification Corresponding data sets are available from the book's page at Wiley which you can find on the Wiley site by searching for the ISBN 9781118876138. Get started discovering, analyzing, visualizing, and presenting data in a meaningful way today!

Changemaker Playbook
Springer

Discover how 25 powerful technology trends are

transforming 21st century businesses How will the latest technologies transform your business? Future Tech Trends in Practice will give you the knowledge of today's most important technology trends, and how to take full advantage of them to grow your business. The book presents 25 real-world technology trends along with their potential contributions to organisational success. You'll learn how to integrate existing advancements and plan for those that are on the way. In this book, best-selling author, strategic business advisor, and respected futurist Bernard Marr

explains the role of technology in providing innovative businesses solutions for companies of varying sizes and across different industries. He covers wide-ranging trends and provides an overview of how companies are using these new and emerging technologies in practice. You, too, can prepare your company for the potential and power of trending technology by examining these and other areas of innovation described in *Future Tech Trends in Practice: Artificial intelligence, including machine and deep learning The Internet of Things and the rise of smart*

devices Self-driving cars and autonomous drones 3D printing and additive manufacturing Blockchain technology Genomics and gene editing Augmented, virtual and mixed reality When you understand the technology trends that are driving success, now and into the future, you'll be better positioned to address and solve problems within your organisation.

Modeling and Simulation of Systems Using MATLAB and Simulink
OB2-II & Electronic Engine Management Systems
This book presents theories

and case studies for corporations in developed nations, including Japan, for designing strategies to maximize opportunities and minimize threats in business expansion into developing nations. The case studies featured here focus on Asia, including China and India, and use examples of Japanese manufacturers. Five case studies are provided, including Hitachi Construction Machinery and Shiseido in China and Maruti Suzuki in India. These cases facilitate the reader's

understanding of the business environments in emerging economies. This volume is especially recommended for business people responsible for international business development, particularly in China and India. In addition, the book serves as a useful resource for students in graduate-level courses in international management.

Global Business Strategy

Ubiquity Press

The crisis in the auto industry has resulted in a race between Volkswagen, as challenger, and Toyota, as tattered global

market leader. Whether it is the German or the Japanese firm that takes pole position, the winner will change the balance of power in the automotive industry and lead the way to the automobiles of the future.

Rethinking Infrastructure in Latin America and the Caribbean

Vintage

Latin America and the Caribbean (LAC) does not have the infrastructure it needs, or deserves, given its income. Many argue that the solution is to spend more; by contrast, this report has one main message: Latin America can dramatically narrow its infrastructure service gap by spending efficiently on the right

things. This report asks three questions: what should LAC countries' goals be? How can these goals be achieved as cost-effectively as possible? And who should pay to reach these goals? In doing so, we drop the 'infrastructure gap' notion, favoring an approach built on identifying the 'service gap'. Benchmarking Latin America in this way reveals clear strengths and weaknesses. Access to water and electricity is good, with the potential for the region's electricity sector to drive competitive advantage; by contrast, transport and sanitation should be key focus areas for further development. The report also identifies and analyses some

of the emerging challenges for the region—climate change, increased demand and urbanization—that will put increasing pressure on infrastructure and policy makers alike. Improving the region’s infrastructure performance in the context of tight fiscal space will require spending better on well identified priorities. Unlike most infrastructure diagnostics, this report argues that much of what is needed lies outside the infrastructure sector †“ in the form of broader government issues—from competition policy, to budgeting rules that no longer solely focus on controlling cash expenditures. We also find that traditional recommendations continue to apply regarding

independent, well-performing regulators and better corporate governance, and highlight the critical importance of cost recovery where feasible and desirable, as the basis for future commercial finance of infrastructure services. Latin America has the means and potential to do better; and it can do so by spending more efficiently on the right things.

Motorized Obsessions CRC Press

In 1953, 27-year-old Henry Gustave Molaison underwent an experimental "psychosurgical" procedure -- a targeted lobotomy -- in an effort to alleviate his

debilitating epilepsy. The outcome was unexpected -- when Henry awoke, he could no longer form new memories, and for the rest of his life would be trapped in the moment. But Henry's tragedy would prove a gift to humanity. As renowned neuroscientist Suzanne Corkin explains in *Permanent Present Tense*, she and her colleagues brought to light the sharp contrast between Henry's crippling memory impairment and his preserved intellect. This new insight that the capacity for remembering is housed in a specific brain area revolutionized the science of

memory. The case of Henry -- known only by his initials H. M. until his death in 2008 -- stands as one of the most consequential and widely referenced in the spiraling field of neuroscience. Corkin and her collaborators worked closely with Henry for nearly fifty years, and in *Permanent Present Tense* she tells the incredible story of the life and legacy of this intelligent, quiet, and remarkably good-humored man. Henry never remembered Corkin from one meeting to the next and had only a dim conception of the importance of the work they were doing together, yet he was consistently happy to see her and always willing to participate in her research. His case afforded untold advances in the study of memory, including the discovery that even profound amnesia spares some kinds of learning, and that different memory processes are localized to separate circuits in the human brain. Henry taught us that learning can occur without conscious awareness, that short-term and long-term memory are distinct capacities, and that the effects of aging-related disease are detectable in an already damaged brain. Undergirded by rich details about the functions of the human brain, *Permanent Present Tense* pulls back the curtain on the man whose misfortune propelled a half-century of exciting research. With great clarity, sensitivity, and grace, Corkin brings readers to the cutting edge of neuroscience in this deeply felt elegy for her patient and friend.

Tech Trends in Practice
Springer Nature
2008 Outstanding Academic Title, Choice Magazine
From dirt bikes and jet skis to weed wackers and snowblowers, machines powered by small gas engines have become a

permanent—and loud—fixture in American culture. But fifty years of high-speed fun and pristine lawns have not come without cost. In the first comprehensive history of the small-bore engine and the technology it powers, Paul R. Josephson explores the political, environmental, and public health issues surrounding one of America's most dangerous pastimes. Each chapter tells the story of an ecosystem within the United States and the devices that wreak havoc on it—personal watercraft (PWCs) on inland lakes and rivers; all-terrain

vehicles (ATVs) in deserts and forests; lawn mowers and leaf blowers in suburbia. In addition to environmental impacts, Josephson discusses the development and promotion of these technologies, the legal and regulatory efforts made to improve their safety and environmental soundness, and the role of owners' clubs in encouraging responsible operation. Synthesizing information from medical journals, recent environmental research, nongovernmental organizations, and manufacturers, Josephson's compelling history leads to one

irrefutable conclusion: these machines cannot be operated without loss of life and loss of habitat.

TCP/IP Illustrated, Volume 1 Basic Books

This book outlines the effects that technology-induced change will have on sport within the next five to ten years, and provides food for thought concerning what lies further ahead. Presented as a collection of essays, the authors are leading academics from renowned institutions such as Massachusetts Institute of

Technology, Queensland University of Technology, and the University of Cambridge, and practitioners with extensive technological expertise. In their essays, the authors examine the impacts of emerging technologies like artificial intelligence, the Internet of Things, and robotics on sports and assess how they will change sport itself, consumer behavior, and existing business models. The book will help athletes, entrepreneurs, and innovators working in the sports industry to spot trendsetting

technologies, gain deeper insights into how they will affect their activities, and identify the most effective responses to stay ahead of the competition both on and off the pitch.

In Defense of Monopoly

Practical Action Pub

This Fourth Edition introduces the latest theory and applications in optimization. It emphasizes constrained optimization, beginning with a substantial treatment of linear programming and then proceeding to convex analysis, network flows, integer programming, quadratic

programming, and convex optimization. Readers will discover a host of practical business applications as well as non-business applications. Topics are clearly developed with many numerical examples worked out in detail. Specific examples and concrete algorithms precede more abstract topics. With its focus on solving practical problems, the book features free C programs to implement the major algorithms covered, including the two-phase simplex method, primal-dual simplex method, path-following interior-point method, and

homogeneous self-dual methods. In addition, the author provides online JAVA applets that illustrate various pivot rules and variants of the simplex method, both for linear programming and for network flows. These C programs and JAVA tools can be found on the book's website. The website also includes new online instructional tools and exercises.

Law's Order University of Michigan Press
Responsible Innovation encourages innovators to work together with stakeholders during the research and

innovation process, to better align the outcomes of innovation with the values, needs and expectations of society. Assessing the benefits and costs of Responsible Innovation is crucial for furthering the responsible conduct of science, technology and innovation. However, there is until now only limited academic work on Responsible Innovation assessment. This book fills this lacuna. *Assessment of Responsible Innovation: Methods and Practices* presents tools for measuring, monitoring, and reporting upon the Responsible

Innovation process and the social, environmental, scientific, and economic impacts of innovations. These tools help innovators to mitigate risk and to strengthen their strategic planning. This book aligns assessment tools and practices with the UN Sustainable Development Goals (SDGs). The prospects as well as the limitations of various Responsible Innovation assessment approaches and tools are discussed, as well as their applicability in various industry contexts. The book brings together leading scholars in the field to present the most

comprehensive review of Responsible Innovation tools. It articulates the importance of assessment and value creation, the different metrics and monitoring systems that can be deployed and the reporting mechanisms, including the importance of effective communication.

Towards a Climate-Neutral Europe BRILL

Over the past 100 years the European Automotive Industry has been repeatedly challenged by best practice. First by the United States, through the development of ‘mass production’ pioneered by Henry Ford and more recently by ‘lean

production techniques’ as practised by the leading Japanese producers, particularly Toyota. It has consistently risen to these challenges and has shown it can compete and even outperform its competitors with world-class products. However, the European - dustry is now faced with growing competition and growth from new emerging low-cost countries and needs to re-define its competitive advantage to remain at the forefront of the sector. Automotive growth is driven by two factors, new m- kets and new technologies. Global competition is increasing, with technology and product differentiation becoming the most important sales factors, but with c-

tinued cost pressure. Within the market the winners will be more profitable and the losers will disappear. The Automotive Industry makes a significant contribution to the socio-economic fabric of the European Union. Manufacturing output represents €700 billion and research and development spending €24 billion. European automotive suppliers number 5000 member companies and represent 5 million employees and generate €500 billion in revenues. These are significant figures that generate wealth and high value employment within the EU. European firms must consistently improve their competitive position to ensure that the industry does

not migrate to growing new markets.

The UNIX-haters Handbook

John Wiley & Sons

OBD-II & Electronic Engine

Management Systems

Manuals N. America,

Incorporated

OBD-II & Electronic Engine

Management Systems John Wiley

& Sons Incorporated

“For an engineer determined to refine and secure Internet operation or to explore alternative solutions to persistent problems, the insights provided by this book will be invaluable.” —Vint Cerf, Internet pioneer TCP/IP Illustrated, Volume 1, Second Edition, is a detailed and visual guide to today’s TCP/IP protocol

suite. Fully updated for the newest innovations, it demonstrates each protocol in action through realistic examples from modern Linux, Windows, and Mac OS environments. There’s no better way to discover why TCP/IP works as it does, how it reacts to common conditions, and how to apply it in your own applications and networks. Building on the late W. Richard Stevens’ classic first edition, author Kevin R. Fall adds his cutting-edge experience as a leader in TCP/IP protocol research, updating the book to fully reflect the latest protocols and best practices. He first introduces TCP/IP’s core goals and architectural concepts, showing how they can robustly

connect diverse networks and support multiple services running concurrently. Next, he carefully explains Internet addressing in both IPv4 and IPv6 networks. Then, he walks through TCP/IP’s structure and function from the bottom up: from link layer protocols—such as Ethernet and Wi-Fi—through network, transport, and application layers. Fall thoroughly introduces ARP, DHCP, NAT, firewalls, ICMPv4/ICMPv6, broadcasting, multicasting, UDP, DNS, and much more. He offers extensive coverage of reliable transport and TCP, including connection management, timeout, retransmission, interactive data flow, and congestion control.

Finally, he introduces the basics of economy to culture and politics security and cryptography, and illuminates the crucial modern protocols for protecting security and privacy, including EAP, IPsec, TLS, DNSSEC, and DKIM.

Whatever your TCP/IP experience, this book will help you gain a deeper, more intuitive understanding of the entire protocol suite so you can build better applications and run more reliable, efficient networks.

The Future of Ideas McGraw Hill Professional

In From Online Platforms to Digital Monopolies: Technology, Information and Power, Jonas C L Valente discusses the rise of platforms as key players in deferments social activities, from

and how they are becoming digital monopolies.

From Online Platforms to Digital Monopolies Springer

Nature

Design makes a tremendous impact on the produced world in terms of usability, resources, understanding, and priorities.

What we produce, how we serve customers and other stakeholders, and even how we understand how the world works is all affected by the design of models and solutions.

Designers have an unprecedented opportunity to use their skills to make

meaningful, sustainable change in the world—if they know how to focus their skills, time, and agendas. In Design is the Problem: The Future of Design Must be Sustainable, Nathan Shedroff examines how the endemic culture of design often creates unsustainable solutions, and shows how designers can bake sustainability into their design processes in order to produce more sustainable solutions.

Motoring the Future No Starch Press

Hybrid drives and the operation of hybrid vehicles are characteristic of contemporary automotive technology. Together

with the electronic driver assistant systems, hybrid technology is of the greatest importance and both cannot be ignored by today's car drivers. This technical reference book provides the reader with a firsthand comprehensive description of significant components of automotive technology. All texts are complemented by numerous detailed illustrations.