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The UNIX-haters Handbook No Starch Press

This book comprehensively describes an end-to-end Internet of Things (IoT) architecture that is comprised of devices, network, compute, storage, platform, applications along with management and security components. It is organized into five main parts, comprising of a total of 11 chapters. Part I presents a generic IoT reference model to establish a common vocabulary for IoT solutions. This includes a detailed description of the Internet protocol layers and the Things (sensors and actuators) as well as the key business drivers to realize the IoT vision. Part II focuses on the IoT requirements that impact networking protocols and provides a layer-by-layer walkthrough of the protocol stack with emphasis on industry progress and key gaps. Part III introduces the concept of Fog computing and describes the drivers for the technology, its constituent elements, and how it relates and differs from Cloud computing. Part IV discusses the IoT services platform, the cornerstone of the solution followed by the Security functions and requirements. Finally, Part V provides a treatment of the topic of connected ecosystems in IoT along with practical applications. It then surveys the latest IoT standards and discusses the pivotal role of open source in IoT. "Faculty will find well-crafted questions and answers at the end of each chapter, suitable for review and in classroom discussion topics. In addition, the material in the book can be used by engineers and technical leaders looking to gain a deep technical understanding of IoT, as well as by managers and business leaders looking to gain a competitive edge and understand innovation opportunities for the future." Dr. Jim Spohrer, IBM "This text provides a very compelling study of the IoT space and achieves a very good balance between engineering/technology focus and business context. As such, it is highly recommended for anyone interested in this rapidly-expanding field and will have broad appeal to a wide cross-section of readers, i.e., including engineering professionals, business analysts, university students, and professors." Professor Nasir Ghani, University of South Florida

Modeling and Simulation of Systems Using MATLAB and Simulink McGraw Hill Professional

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.

5th International Munich Chassis Symposium 2014 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.

In Defense of Monopoly Springer

Featuring a wide range of international case studies, Ethics, Technology, and Engineering presents a unique and systematic approach for engineering students to deal with the ethical issues that are increasingly inherent in engineering practice. Utilizes a systematic approach to ethical case analysis -- the ethical cycle -- which features a wide range of real-life international case studies including the Challenger Space Shuttle, the Herald of Free Enterprise and biofuels. Covers a broad range of topics, including ethics in design, risks, responsibility, sustainability, and emerging technologies Can be used in conjunction with the online ethics tool Agora (<http://www.ethicsandtechnology.com>) Provides engineering students with a clear introduction to the main ethical theories Includes an extensive glossary with key terms

Predictably Irrational Melcher Media Incorporated

OBD-II & Electronic Engine Management Systems Haynes Manuals N. America, Incorporated

Cities as Sustainable Ecosystems Springer Science & Business Media

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.

RESTART Sustainable Business Model Innovation CRC Press

The MATSim (Multi-Agent Transport Simulation) software project was started around 2006 with the goal of generating traffic and congestion patterns by following individual synthetic travelers through their daily or weekly activity programme. It has since then evolved from a collection of stand-alone C++ programs to an integrated Java-based framework which is publicly hosted, open-source available, automatically regression tested. It is currently used by about 40 groups throughout the world. This book takes stock of the current status. The first part of the book gives an introduction to the most important concepts, with the intention of enabling a potential user to set up and run basic simulations. The second part of the book describes how the basic functionality can be extended, for example by adding schedule-based public transit, electric or autonomous cars, paratransit, or within-day replanning. For each extension, the text provides pointers to the additional documentation and to the code base. It is also discussed how people with appropriate Java programming skills can write their own extensions, and plug them into the MATSim core. The project has started from the basic idea that traffic is a consequence of human behavior, and thus humans and their behavior should be the starting point of all modelling, and with the intuition that when simulations with 100 million particles are possible in computational physics, then behavior-

oriented simulations with 10 million travelers should be possible in travel behavior research. The initial implementations thus combined concepts from computational physics and complex adaptive systems with concepts from travel behavior research. The third part of the book looks at theoretical concepts that are able to describe important aspects of the simulation system; for example, under certain conditions the code becomes a Monte Carlo engine sampling from a discrete choice model. Another important aspect is the interpretation of the MATSim score as utility in the microeconomic sense, opening up a connection to benefit cost analysis. Finally, the book collects use cases as they have been undertaken with MATSim. All current users of MATSim were invited to submit their work, and many followed with sometimes crisp and short and sometimes longer contributions, always with pointers to additional references. We hope that the book will become an invitation to explore, to build and to extend agent-based modeling of travel behavior from the stable and well tested core of MATSim documented here.

Agricultural Value Chain Finance Ubiquity Press

Not only do modeling and simulation help provide a better understanding of how real-world systems function, they also enable us to predict system behavior before a system is actually built and analyze systems accurately under varying operating conditions. Modeling and Simulation of Systems Using MATLAB® and Simulink® provides comprehensive, state-of-the-art coverage of all the important aspects of modeling and simulating both physical and conceptual systems. Various real-life examples show how simulation plays a key role in understanding real-world systems. The author also explains how to effectively use MATLAB and Simulink software to successfully apply the modeling and simulation techniques presented. After introducing the underlying philosophy of systems, the book offers step-by-step procedures for modeling different types of systems using modeling techniques, such as the graph-theoretic approach, interpretive structural modeling, and system dynamics modeling. It then explores how simulation evolved from pre-computer days into the current science of today. The text also presents modern soft computing techniques, including artificial neural networks, fuzzy systems, and genetic algorithms, for modeling and simulating complex and nonlinear systems. The final chapter addresses discrete systems modeling. Preparing both undergraduate and graduate students for advanced modeling and simulation courses, this text helps them carry out effective simulation studies. In addition, graduate students should be able to comprehend and conduct simulation research after completing this book.

The Future of Ideas Routledge

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.

Linear Programming Springer

This book explains the EU's climate policies in an accessible way, to demonstrate the step-by-step approach that has been used to develop these policies, and the ways in which they have been tested and further improved in the light of experience. The latest changes to the legislation are fully explained throughout. The chapters throughout this volume show that no single policy instrument can bring down greenhouse gas emissions. The challenge facing the EU, as for many countries that have made pledges under the Paris Agreement, is to put together a toolbox of policy instruments that is coherent, delivers emissions reductions, and is cost-effective. The book stands out by the fact it covers the EU's emissions trading system, the energy sector and other economic sectors, including their development in the context of international climate policy. This accessible book will be of great relevance to students, scholars and policy makers alike.

Fundamentals of Automotive and Engine Technology Rosenfeld Media

The digital world profoundly shapes how we work and consume and also how we play, socialize, create identities, and engage in politics and civic life. Indeed, we are so enmeshed in digital networks—from social media to cell phones—that it is hard to conceive of them from the outside or to imagine an alternative, let alone defy their seemingly inescapable power and logic. Yes, it is (sort of) possible to quit Facebook. But is it possible to disconnect from the digital network—and why might we want to? Off the Network is a fresh and authoritative examination of how the hidden logic of the Internet, social media, and the digital network is changing users' understanding of the world—and why that should worry us. Ulises Ali Mejias also suggests how we might begin to rethink the logic of the network and question its ascendancy. Touted as consensual, inclusive, and pleasurable, the digital network is also, Mejias says, monopolizing and threatening in its capacity to determine, commodify, and commercialize so many aspects of our lives. He shows how the network broadens participation yet also exacerbates disparity—and how it excludes more of society than it includes. Uniquely, Mejias makes the case that it is not only necessary to challenge the privatized and commercialized modes of social and civic life offered by corporate-controlled spaces such as Facebook and Twitter, but that such confrontations can be mounted from both within and outside the network. The result is an uncompromising, sophisticated, and accessible critique of the digital world that increasingly dominates our lives.

Law's Order Springer Nature

This book is for all people who are forced to use UNIX. It is a humorous book—pure entertainment—that maintains that UNIX is a computer virus with a user interface. It features letters from the thousands posted on the Internet's "UNIX-Haters" mailing list. It is not a computer handbook, tutorial, or reference. It is a self-help book that will let readers know they are not alone.

Research and the Future of Telematics Routledge
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.

The Multi-Agent Transport Simulation MATSim Addison-Wesley

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.

Ethics, Technology, and Engineering

Transportation Research Board

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.

From Online Platforms to Digital Monopolies

John Wiley & Sons

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.

U of Minnesota Press

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.

The Geography of Transport Systems Springer

An upbeat cultural evaluation of the sources of illogical decisions explores the reasons why irrational thought often overcomes level-

headed practices, offering insight into the structural patterns that cause people to make the same mistakes repeatedly. 150,000 first printing.

Rethinking Infrastructure in Latin America and the Caribbean 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

The Impact of Electric Cars on Oil Demand and Greenhouse Gas Emissions in Key Markets

Basic Books

The Internet revolution has come. Some say it has gone. In *The Future of Ideas*, Lawrence Lessig explains how the revolution has produced a counterrevolution of potentially devastating power and effect. Creativity once flourished because the Net protected a commons on which widest range of innovators could experiment. But now, manipulating the law for their own purposes, corporations have established themselves as virtual gatekeepers of the Net while Congress, in the pockets of media magnates, has rewritten copyright and patent laws to stifle creativity and progress. Lessig weaves the history of technology and its relevant laws to make a lucid and accessible case to protect the sanctity of intellectual freedom. He shows how the door to a future of ideas is being shut just as technology is creating extraordinary possibilities that have implications for all of us. Vital, eloquent, judicious and forthright, *The Future of Ideas* is a call to arms that we can ill afford to ignore.