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Are Prisons Obsolete? Angela Y. Davis 2011-01-04 With her characteristic brilliance, grace and radical audacity, Angela Y. Davis has put the case for the latest abolition movement in American life: the abolition of the prison. As she quite correctly notes, American life is replete with abolition movements, and when they were engaged in these struggles, their chances of success seemed almost unthinkable. For generations of Americans, the abolition of slavery was sheerest illusion. Similarly, the entrenched system of racial segregation seemed to last forever, and generations lived in the midst of the practice, with few predicting its passage from custom. The brutal, exploitative (dare one say lucrative?) convict-lease system that succeeded formal slavery reaped millions to southern jurisdictions (and untold miseries for tens of thousands of men, and women). Few predicted its passing from the American penal landscape. Davis expertly argues how social movements transformed these social, political and cultural institutions, and made such practices untenable. In *Are Prisons Obsolete?*, Professor Davis seeks to illustrate that the time for the prison is approaching an end. She argues forthrightly for

"decarceration", and argues for the transformation of the society as a whole.

Software-Defined Radio for Engineers
Alexander M. Wyglinski 2018-04-30
Based on the popular Artech House classic, *Digital Communication Systems Engineering with Software-Defined Radio*, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception

and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

Nineteen Eighty-Four George Orwell
2021-01-09 "Nineteen Eighty-Four: A Novel", often published as "1984", is a dystopian social science fiction novel by English novelist George Orwell. It was published on 8 June 1949 by Secker & Warburg as Orwell's ninth and final book completed in his lifetime. Thematically, "Nineteen Eighty-Four" centres on the consequences of totalitarianism, mass surveillance, and repressive regimentation of persons and behaviours within society. Orwell, himself a democratic socialist, modelled the authoritarian government in the novel after Stalinist Russia. More broadly, the novel examines the role of truth and facts within politics and the ways in which they are manipulated. The story takes place in an imagined future, the year 1984, when much of the world has fallen victim to perpetual war, omnipresent government surveillance, historical negationism, and propaganda. Great Britain, known as Airstrip One, has become a province of a totalitarian superstate named Oceania that is ruled by the Party who employ the Thought Police to persecute individuality and independent thinking. Big Brother, the leader of the Party, enjoys an intense cult of personality despite the fact that he may not even exist. The protagonist, Winston Smith, is a diligent and skillful rank-and-file worker and Outer Party member who secretly hates the Party and dreams of rebellion. He enters into a forbidden relationship with a colleague, Julia, and starts to remember what life was like before the Party came to power.

Federal Register 2013-11

The Semantic Sphere 1 Pierre Lévy
2013-01-22 The new digital media offers us an unprecedented memory capacity, an ubiquitous communication channel and a growing computing power. How can we exploit this medium to augment our personal and social cognitive processes at the service of human development? Combining a deep knowledge of humanities and social sciences as well as a real familiarity with computer science issues, this book explains the collaborative construction of a global hypercortex coordinated by a computable metalanguage. By recognizing fully the symbolic and social nature of human cognition, we could transform our current opaque global brain into a reflexive collective intelligence.

Automotive Ethernet Kirsten Matheus
2015 Learn how automotive Ethernet is revolutionizing in-car networking from the experts at the core of its development. Providing an in-depth account of automotive Ethernet, from its background and development, to its future prospects, this book is ideal for industry professionals and academics alike.

A Theory of the Drone Gržgoire Chamayou
2015-01-06 The Parisian research scholar and author of *Manhunts* offers a philosophical perspective on the role of drone technology in today's changing military environments and the implications of drone capabilities in enabling democratic choices. 12,500 first printing.

DOTA 2: The Comic Collection Valve Corporation
2017-08-01 The heroes of Dota 2 forge eternal legacies amidst the chaos of battle as they ward off assaults on their Ancient and push ever closer to the destruction of the enemy's. Now glimpse beyond mere allegiance to Radiant or Dire into the storied lives of these legendary

warriors with Dota 2: The Comic Collection. Valve and Dark Horse are proud to present eight premier comics—collected in print for the first time—that delve into the characters and universe of the most played game on Steam. Offering a glimpse into the origins of the Ancients and the deeper workings of the world they inhabit, Dota 2: The Comic Collection is a chronicle that celebrates the passion of Dota 2 players everywhere.

Beyond Earth Asif A. Siddiqi 2018

This is a completely updated and revised version of a monograph published in 2002 by the NASA History Office under the original title Deep Space Chronicle: A Chronology of Deep Space and Planetary Probes, 1958-2000. This new edition not only adds all events in robotic deep space exploration after 2000 and up to the end of 2016, but it also completely corrects and updates all accounts of missions from 1958 to 2000--Provided by publisher.

Backpacker 2001-03 Backpacker brings the outdoors straight to the reader's doorstep, inspiring and enabling them to go more places and enjoy nature more often. The authority on active adventure, Backpacker is the world's first GPS-enabled magazine, and the only magazine whose editors personally test the hiking trails, camping gear, and survival tips they publish. Backpacker's Editors' Choice Awards, an industry honor recognizing design, feature and product innovation, has become the gold standard against which all other outdoor-industry awards are measured. *Backpacker* 2001-03 Backpacker brings the outdoors straight to the reader's doorstep, inspiring and enabling them to go more places and enjoy nature more often. The authority on active adventure, Backpacker is the world's first GPS-enabled magazine, and the only magazine whose editors

personally test the hiking trails, camping gear, and survival tips they publish. Backpacker's Editors' Choice Awards, an industry honor recognizing design, feature and product innovation, has become the gold standard against which all other outdoor-industry awards are measured.

Applied Predictive Modeling Max Kuhn

2013-05-17 Applied Predictive Modeling covers the overall predictive modeling process, beginning with the crucial steps of data preprocessing, data splitting and foundations of model tuning. The text then provides intuitive explanations of numerous common and modern regression and classification techniques, always with an emphasis on illustrating and solving real data problems. The text illustrates all parts of the modeling process through many hands-on, real-life examples, and every chapter contains extensive R code for each step of the process. This multi-purpose text can be used as an introduction to predictive models and the overall modeling process, a practitioner's reference handbook, or as a text for advanced undergraduate or graduate level predictive modeling courses. To that end, each chapter contains problem sets to help solidify the covered concepts and uses data available in the book's R package. This text is intended for a broad audience as both an introduction to predictive models as well as a guide to applying them. Non-mathematical readers will appreciate the intuitive explanations of the techniques while an emphasis on problem-solving with real data across a wide variety of applications will aid practitioners who wish to extend their expertise. Readers should have knowledge of basic statistical ideas, such as correlation and linear regression analysis. While the text is biased against complex equations, a

mathematical background is needed for advanced topics.

Fabulicious!: On the Grill Teresa Giudice 2013-05-07 With three New York Times bestsellers and continued stardom on *The Real Housewives of New Jersey*, Teresa has more tasty recipes to share with her fans. This next cookbook features Teresa's signature easy, no-fuss Italian cooking—but this time with 70 recipes you can make on the grill, including: Foolproof sauces, rubs, and marinades Hearty red meat & chicken recipes Easy Seafood Low-fat veggie grilling Pizzas out-of-the-oven Off-the-grill sides Delicious desserts And more tips on backyard entertaining Including special "bikini" recipes for lite eating, fun fare for kids, as well as dozens of tips from husband "Juicy" Joe Giudice, *Fabulicious On the Grill* has everything you need to cook and dine al fresco!

Mastering Cloud Computing Rajkumar Buyya 2013-04-05 *Mastering Cloud Computing* is designed for undergraduate students learning to develop cloud computing applications. Tomorrow's applications won't live on a single computer but will be deployed from and reside on a virtual server, accessible anywhere, any time. Tomorrow's application developers need to understand the requirements of building apps for these virtual systems, including concurrent programming, high-performance computing, and data-intensive systems. The book introduces the principles of distributed and parallel computing underlying cloud architectures and specifically focuses on virtualization, thread programming, task programming, and map-reduce programming. There are examples demonstrating all of these and more, with exercises and labs throughout. Explains how to make design choices

and tradeoffs to consider when building applications to run in a virtual cloud environment Real-world case studies include scientific, business, and energy-efficiency considerations

Google Earth Engine Applications Lalit Kumar 2019-04-23 In a rapidly changing world, there is an ever-increasing need to monitor the Earth's resources and manage it sustainably for future generations. Earth observation from satellites is critical to provide information required for informed and timely decision making in this regard. Satellite-based earth observation has advanced rapidly over the last 50 years, and there is a plethora of satellite sensors imaging the Earth at finer spatial and spectral resolutions as well as high temporal resolutions. The amount of data available for any single location on the Earth is now at the petabyte-scale. An ever-increasing capacity and computing power is needed to handle such large datasets. The Google Earth Engine (GEE) is a cloud-based computing platform that was established by Google to support such data processing. This facility allows for the storage, processing and analysis of spatial data using centralized high-power computing resources, allowing scientists, researchers, hobbyists and anyone else interested in such fields to mine this data and understand the changes occurring on the Earth's surface. This book presents research that applies the Google Earth Engine in mining, storing, retrieving and processing spatial data for a variety of applications that include vegetation monitoring, cropland mapping, ecosystem assessment, and gross primary productivity, among others. Datasets used range from coarse spatial resolution data, such as MODIS, to medium resolution

datasets (Worldview -2), and the studies cover the entire globe at varying spatial and temporal scales.

Best Practices Handbook for the Collection and Use of Solar Resource Data for Solar Energy Applications

Manajit Sengupta 2021

Behind the Search Box ShinJoung Yeo 2023-04-18 Once seen as a harbinger of a new enlightened capitalism, Google has become a model of robber baron rapaciousness thanks to its ruthless monetizing of private data, obsession with monopoly, and pervasive systems of labor discrimination and exploitation. Using the company as a jumping-off point, ShinJoung Yeo explores the political economy of the search engine industry against the backdrop of the relationship between information and capitalism's developmental processes. Yeo's critical analysis draws on in-depth discussions of essential issues like how the search engine evolved into a ubiquitous commercial service, its place in a global information business that is restructuring the information industry and our very social lives, who exactly designs and uses search technology, what kinds of workers labor behind the scenes, and the influence of geopolitics. An incisive look at a pervasive presence in our lives, Behind the Search Box places the search engine industry's rise and ongoing success within an original political economy of digital capitalism.

Operations (ADP 3-0) Headquarters Department of the Army 2019-09-27 ADP 3-0, Operations, constitutes the Army's view of how to conduct prompt and sustained operations across multiple domains, and it sets the foundation for developing other principles, tactics, techniques, and procedures detailed in subordinate doctrine publications. It articulates the Army's operational doctrine for

unified land operations. ADP 3-0 accounts for the uncertainty of operations and recognizes that a military operation is a human undertaking. Additionally, this publication is the foundation for training and Army education system curricula related to unified land operations. The principal audience for ADP 3-0 is all members of the profession of arms. Commanders and staffs of Army headquarters serving as joint task force (JTF) or multinational headquarters should also refer to applicable joint or multinational doctrine concerning the range of military operations and joint or multinational forces. Trainers and educators throughout the Army will use this publication as well.

Fabless Daniel Nenni 2014 The purpose of this book is to illustrate the magnificence of the fabless semiconductor ecosystem, and to give credit where credit is due. We trace the history of the semiconductor industry from both a technical and business perspective. We argue that the development of the fabless business model was a key enabler of the growth in semiconductors since the mid-1980s. Because business models, as much as the technology, are what keep us thrilled with new gadgets year after year, we focus on the evolution of the electronics business. We also invited key players in the industry to contribute chapters. These "In Their Own Words" chapters allow the heavyweights of the industry to tell their corporate history for themselves, focusing on the industry developments (both in technology and business models) that made them successful, and how they in turn drive the further evolution of the semiconductor industry.

Computer Networks Tanenbaum 2011 Tanenbaum takes a structured approach to explaining how networks work from

the inside out. He starts with an explanation of the physical layer of networking, computer hardware and transmission systems; then works his way up to network applications. Tanenbaum's in-depth application coverage includes email; the domain name system; the World Wide Web (both client- and server-side); and multimedia (including voice over IP, Internet radio video on demand, video conferencing, and streaming media. Each chapter follows a consistent approach: Tanenbaum presents key principles, then illustrates them utilizing real-world example networks that run through the entire book—the Internet, and wireless networks, including Wireless LANs, broadband wireless and Bluetooth. The Fifth Edition includes a chapter devoted exclusively to network security. The textbook is supplemented by a Solutions Manual, as well as a Website containing PowerPoint slides, art in various forms, and other tools for instruction, including a protocol simulator whereby students can develop and test their own network protocols.

Embedded Librarians Cassandra Kvenild 2011 Showcases strategies for successfully embedding librarians and library services across higher education. Chapters feature case studies and reports on projects from a wide variety of colleges and universities. --from publisher description.

Monetizing Your Data Andrew Roman Wells 2017-03-13 Transforming data into revenue generating strategies and actions Organizations are swamped with data—collected from web traffic, point of sale systems, enterprise resource planning systems, and more, but what to do with it? *Monetizing your Data* provides a framework and path for business managers to convert ever-increasing volumes of data into revenue generating actions through

three disciplines: decision architecture, data science, and guided analytics. There are large gaps between understanding a business problem and knowing which data is relevant to the problem and how to leverage that data to drive significant financial performance. Using a proven methodology developed in the field through delivering meaningful solutions to Fortune 500 companies, this book gives you the analytical tools, methods, and techniques to transform data you already have into information into insights that drive winning decisions. Beginning with an explanation of the analytical cycle, this book guides you through the process of developing value generating strategies that can translate into big returns. The companion website, www.monetizingyourdata.com, provides templates, checklists, and examples to help you apply the methodology in your environment, and the expert author team provides authoritative guidance every step of the way. This book shows you how to use your data to: Monetize your data to drive revenue and cut costs Connect your data to decisions that drive action and deliver value Develop analytic tools to guide managers up and down the ladder to better decisions Turning data into action is key; data can be a valuable competitive advantage, but only if you understand how to organize it, structure it, and uncover the actionable information hidden within it through decision architecture and guided analytics. From multinational corporations to single-owner small businesses, companies of every size and structure stand to benefit from these tools, methods, and techniques; *Monetizing your Data* walks you through the translation and transformation to help you leverage your data into

value creating strategies.

East Asia's Changing Urban Landscape

World Bank 2015-01-07 This study uses satellite imagery and population data for the decade 2000 to 2010 in order to map urban areas and populations across the entire East Asia region, identifying 869 urban areas with populations over 100,000, allowing us for the first time to understand patterns in urbanization in East Asia.

Start-up Hervé Lebreton 2007 Although start-ups represent a major phenomenon in the USA, they also create skepticism and even suspicion, perhaps because of the excesses of the Internet bubble. Apple, Microsoft, Intel, Cisco, Yahoo and Google were all start-ups and these success stories show that the phenomenon is not mere speculation. The goal of this book is to show start-ups from a different angle. Start-ups are created by individuals who are passionate and who have dreams. Therefore this work should not only be read by specialists of innovation or by high tech entrepreneurs, but also by anyone interested in the history and economics of start-ups. The book is presented in two parts: it begins with a presentation of Silicon Valley start-ups, which ends with a description of the ecosystem of this region. The second part is dedicated to Europe, where the start-up phenomenon has failed in comparison. The main message is that it is absolutely necessary to take more inspiration from Silicon Valley.

2013 Revised Supplementary Methods and Good Practice Guidance Arising from the Kyoto Protocol Takahiko Hiraishi 2014 The 2013 revised supplementary methods and good practice guidance arising from the Kyoto Protocol (KP Supplement) describes the supplementary methods and good practice guidance for

measuring, estimating and reporting of anthropogenic greenhouse gas (GHG) emissions and removals resulting from land use, land use change and forestry (LULUCF) activities covered by the Kyoto Protocol (KP) for the second commitment period (CP). This document addresses activities under Article 3.3, Forest Management and elective activities under Article 3.4. The supplementary methods and good practice guidance of this document are relevant to each Party included in Annex I that have ratified the KP for the second CP and for other countries interested in the updated guidance.

Python Data Science Handbook Jake VanderPlas 2016-11-21 For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational environments for data scientists using Python NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in Python

Matplotlib: includes capabilities for a flexible range of data visualizations in Python Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms

Designing Brand Identity Alina Wheeler 2012-10-11 A revised new edition of the bestselling toolkit for creating, building, and maintaining a strong brand From research and analysis through brand strategy, design development through application design, and identity standards through launch and governance, *Designing Brand Identity, Fourth Edition* offers brand managers, marketers, and designers a proven, universal five-phase process for creating and implementing effective brand identity. Enriched by new case studies showcasing successful world-class brands, this Fourth Edition brings readers up to date with a detailed look at the latest trends in branding, including social networks, mobile devices, global markets, apps, video, and virtual brands. Features more than 30 all-new case studies showing best practices and world-class Updated to include more than 35 percent new material Offers a proven, universal five-phase process and methodology for creating and implementing effective brand identity

Pixel Detectors Leonardo Rossi 2006-01-18 Pixel detectors are a particularly important class of particle and radiation detection devices. They have an extremely broad spectrum of applications, ranging from high-energy physics to the photo cameras of everyday life. This book is a general purpose introduction into the fundamental principles of pixel detector technology and semiconductor-based hybrid pixel devices. Although these devices were developed for high-energy ionizing particles and radiation beyond

visible light, they are finding new applications in many other areas. This book will therefore benefit all scientists and engineers working in any laboratory involved in developing or using particle detection.

Glaciation and climate change in the andean cordillera Jacob M. Bendle 2023-02-27

Dividends and Dividend Policy H. Kent Baker 2009-05-04 *Dividends And Dividend Policy* As part of the Robert W. Kolb Series in Finance, *Dividends and Dividend Policy* aims to be the essential guide to dividends and their impact on shareholder value. Issues concerning dividends and dividend policy have always posed challenges to both academics and professionals. While all the pieces to the dividend puzzle may not be in place yet, the information found here can help you gain a firm understanding of this dynamic discipline. Comprising twenty-eight chapters—contributed by both top academics and financial experts in the field—this well-rounded resource discusses everything from corporate dividend decisions to the role behavioral finance plays in dividend policy. Along the way, you'll gain valuable insights into the history, trends, and determinants of dividends and dividend policy, and discover the different approaches firms are taking when it comes to dividends. Whether you're a seasoned financial professional or just beginning your journey in the world of finance, having a firm understanding of the issues surrounding dividends and dividend policy is now more important than ever. With this book as your guide, you'll be prepared to make the most informed dividend-related decisions possible—even in the most challenging economic conditions. The Robert W. Kolb Series in Finance is an unparalleled source of information dedicated to the most important

issues in modern finance. Each book focuses on a specific topic in the field of finance and contains contributed chapters from both respected academics and experienced financial professionals.

Microsoft Excel 2013: Complete Steven M. Freund 2013-08-21 Introduce your students to the latest that Microsoft Office has to offer with the new generation of Shelly Cashman Series books! For the past three decades, the Shelly Cashman Series has effectively introduced computer skills to millions of students. With Microsoft Excel 2013, we're continuing our history of innovation by enhancing our proven pedagogy to reflect the learning styles of today's students. In this text you'll find features that are specifically designed to engage students, improve retention, and prepare them for future success. Our trademark step-by-step, screen-by-screen approach now encourages students to expand their understanding of Microsoft Excel 2013 through experimentation, critical thought, and personalization. With these enhancements and more, the Shelly Cashman Series continues to deliver the most effective educational materials for you and your students. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Land-Use and Land-Cover Change Eric F. Lambin 2008-01-08 This book presents recent estimates on the rate of change of major land classes. Aggregated globally, multiple impacts of local land changes are shown to significantly affect central aspects of Earth System functioning. The book offers innovative developments and applications in the fields of modeling and scenario construction. Conclusions are also drawn about the

most pressing implications for the design of appropriate intervention policies.

Computer Networks Andrew S. Tanenbaum 2019-02

Autonomous Horizons Greg Zacharias 2019-04-05 Dr. Greg Zacharias, former Chief Scientist of the United States Air Force (2015-18), explores next steps in autonomous systems (AS) development, fielding, and training. Rapid advances in AS development and artificial intelligence (AI) research will change how we think about machines, whether they are individual vehicle platforms or networked enterprises. The payoff will be considerable, affording the US military significant protection for aviators, greater effectiveness in employment, and unlimited opportunities for novel and disruptive concepts of operations. *Autonomous Horizons: The Way Forward* identifies issues and makes recommendations for the Air Force to take full advantage of this transformational technology.

The Linux Command Line William E. Shotts, Jr. 2012 You've experienced the shiny, point-and-click surface of your Linux computer—now dive below and explore its depths with the power of the command line. The Linux Command Line takes you from your very first terminal keystrokes to writing full programs in Bash, the most popular Linux shell. Along the way you'll learn the timeless skills handed down by generations of gray-bearded, mouse-shunning gurus: file navigation, environment configuration, command chaining, pattern matching with regular expressions, and more. In addition to that practical knowledge, author William Shotts reveals the philosophy behind these tools and the rich heritage that your desktop Linux machine has inherited from Unix supercomputers of yore. As you make

your way through the book's short, easily-digestible chapters, you'll learn how to: * Create and delete files, directories, and symlinks * Administer your system, including networking, package installation, and process management * Use standard input and output, redirection, and pipelines * Edit files with Vi, the world's most popular text editor * Write shell scripts to automate common or boring tasks * Slice and dice text files with cut, paste, grep, patch, and sed Once you overcome your initial "shell shock," you'll find that the command line is a natural and expressive way to communicate with your computer. Just don't be surprised if your mouse starts to gather dust. A featured resource in the Linux Foundation's "Evolution of a SysAdmin"

Using Science to Improve the BLM Wild Horse and Burro Program Committee to Review the Bureau of Land Management Wild Horse and Burro Management Program 2013-09-18 *Using Science to Improve the BLM Wild Horse and Burro Program: A Way Forward* reviews the science that underpins the Bureau of Land Management's oversight of free-ranging horses and burros on federal public lands in the western United States, concluding that constructive changes could be implemented. The Wild Horse and Burro Program has not used scientifically rigorous methods to estimate the population sizes of horses and burros, to model the effects of management actions on the animals, or to assess the availability and use of forage on rangelands. Evidence suggests that horse populations are growing by 15 to 20 percent each year, a level that is unsustainable for maintaining healthy horse populations as well as healthy ecosystems. Promising fertility-control methods are available to help limit this population growth, however. In

addition, science-based methods exist for improving population estimates, predicting the effects of management practices in order to maintain genetically diverse, healthy populations, and estimating the productivity of rangelands. Greater transparency in how science-based methods are used to inform management decisions may help increase public confidence in the Wild Horse and Burro Program.

Cryptography and Network Security
William Stallings 2016-02-18 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. The Principles and Practice of Cryptography and Network Security Stallings' Cryptography and Network Security, Seventh Edition, introduces the reader to the compelling and evolving field of cryptography and network security. In an age of viruses and hackers, electronic eavesdropping, and electronic fraud on a global scale, security is paramount. The purpose of this book is to provide a practical survey of both the principles and practice of cryptography and network security. In the first part of the book, the basic issues to be addressed by a network security capability are explored by providing a tutorial and survey of cryptography and network security technology. The latter part of the book deals with the practice of network security: practical applications that have been implemented and are in use to provide network security. The Seventh Edition streamlines subject matter with new and updated material – including Sage, one of the most important features of the book. Sage is an open-source, multiplatform, freeware package that implements a very powerful, flexible, and easily learned mathematics and computer

algebra system. It provides hands-on experience with cryptographic algorithms and supporting homework assignments. With Sage, the reader learns a powerful tool that can be used for virtually any mathematical application. The book also provides an unparalleled degree of support for the reader to ensure a successful learning experience.

Industrial Combustion Testing Charles E. Baukal, Jr. 2011-06-03 Until now, anyone conducting industrial combustion tests had to either rely on old methods, go scurrying through the literature to find proven applicable methodologies, or hire top-shelf consultants such as those that work for cutting-edge companies like John Zink. Manufacturers can no longer take industrial combustion for granted. Air and noise pollution standards must be met, and today no one can afford the inefficient use of fuel. Drawing on three decades of experience, Charles Baukal Jr. is not only aware of the best methods but is responsible for designing and implementing a number of them, owning 11 patents of his own, as well as having hundreds of articles to his credit. Providing busy engineers with a convenient reference that gives them state-of-the-art techniques without having to cull through the literature, this practical compendium: Demonstrates how to conduct meaningful experiments with industrial scale combustion equipment Illustrates a number of methods through case studies Includes detailed pictures, figures, graphs,

and tables, to explain processes and make sense of the data Presents valuable information on advanced diagnostics, burner and flare testing, and testing in combustors, including techniques for a variety of kilns, furnaces, and boilers Written to make better practitioners out of academicians and better scholars out of hands-on engineers, this unique volume teaches academics how to work at the large scales associated with industrial combustion, while also teaching engineers the rigorous approach needed for successful modeling.

Shelly Cashman Series Gary B. Shelly 1999

Tackling Climate Change Through Livestock Food and Agriculture Organization of the United Nations 2013 Greenhouse gas emissions by the livestock sector could be cut by as much as 30 percent through the wider use of existing best practices and technologies. FAO conducted a detailed analysis of GHG emissions at multiple stages of various livestock supply chains, including the production and transport of animal feed, on-farm energy use, emissions from animal digestion and manure decay, as well as the post-slaughter transport, refrigeration and packaging of animal products. This report represents the most comprehensive estimate made to-date of livestock's contribution to global warming as well as the sectors potential to help tackle the problem. This publication is aimed at professionals in food and agriculture as well as policy makers.