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Introduction to Spintronics *CRC Press* **Using spin to replace or augment the role of charge in signal processing devices, computing systems and circuits may improve speed, power consumption, and device density in some cases—making the study of spinone of the fastest-growing areas in micro- and nanoelectronics. With most of the literature on the subject still highly advanced and heavily theoretical, the demand for a practical introduction to the concepts relating to spin has only now been filled. Explains effects such as giant magnetoresistance, the subject of the 2007 Nobel Prize in physics Introduction to Spintronics is an accessible, organized, and progressive presentation of the quantum mechanical concept of spin. The authors build a foundation of principles and equations underlying the physics, transport, and dynamics of spin in solid state systems. They explain the use of spin for encoding qubits in quantum logic processors; clarify how spin-orbit interaction forms the basis for certain spin-based devices such as spintronic field effect transistors; and discuss the effects of magnetic fields on spin-based device performance. Covers active hybrid spintronic devices, monolithic spintronic devices, passive spintronic devices, and devices based on the giant magnetoresistance effect The final chapters introduce the burgeoning field of spin-based reversible logic gates, spintronic embodiments of quantum computers, and other topics in quantum mechanics that have applications in spintronics. An Introduction to Spintronics provides the knowledge and understanding of the field needed to conduct independent research in spintronics. Power Converters with Digital Filter Feedback Control** *Academic Press* **Power Converter with Digital Filter Feedback Control presents a logical sequence that leads to the identification, extraction, formulation, conversion, and implementation for the control function needed in electrical power equipment systems. This book builds a bridge for moving a power converter with conventional analog feedback to one with modern digital filter control and enlists the state space averaging technique to identify the core control function in analytical, close form in s-domain (Laplace). It is a useful reference for all professionals and electrical engineers engaged in electrical power equipment/systems design, integration, and management. Offers logical sequences to identification, extraction, formulation, conversion, and implementation for the control function needed Contains step-by-step instructions on how to take existing analog designed power processors and move them to the digital realm Presents ways to extract gain functions for many power converters' power processing stages and their supporting circuitry Antimicrobial Chemotherapy** *OUP Oxford* **Antimicrobial agents are essential for the treatment of life-threatening infections and for managing the burden of minor infections in the community. In addition, they play a key role in organ and bone marrow transplantation, cancer chemotherapy, artificial joint and heart valve surgery. Unlike other classes of medicines, they are vulnerable to resistance from mutations in target microorganisms, and their adverse effects may extend to other patients (increased risk of cross-infection). As a consequence, there is a constant requirement for new agents, as well as practices that ensure the continued effective prescribing of licensed agents. Public awareness and concerns about drug resistant organisms has led to widespread publicity and political action in the UK, Europe and worldwide. The control of drug resistance and the implementation of good prescribing practice are now legal requirements in the UK as a result of the UK Health Act (2008). These fundamental changes underscore the need for a thorough understanding of the advantages and risks associated with specific antibiotic choices. This sixth edition of Antimicrobial Chemotherapy continues to be a valuable resource for undergraduates and graduates requiring a thorough grounding in the scientific basis and clinical application of these drugs. This new edition is updated to include the most recently licensed agents, notably in the treatment of viral infections including HIV/AIDS, and contains new guidance on prescribing practice and infection control practices that limit the development and spread of resistant organisms. Practical Methods for Analysis and Design of HV Installation Grounding Systems** *Academic Press* **Practical Methods for Analysis and Design of HV Installation Grounding Systems gives readers a basic understanding of the modeling characteristics of the major components of a complex grounding system. One by one, the author develops and analyzes each component as a standalone element, but then puts them together, considering their mutual disposition, or so-called proximity effect. This is the first book to enable the making and analysis of the most complex grounding systems that are typical for HV substations located in urban areas that uses relatively simple mathematical operations instead of modern computers. Since the presented methods enable problem-solving for more complex issues than the ones solved using National, IEC and/or IEEE standards, this book can be considered as an appendix to these standards. Develops general equations of lumped parameter ladder circuits Includes the analytical expression for determination of ground fault current distribution for a fault anywhere along a cable line Presents measurement and analytical methods for the determination of actual ground fault current distribution for high-voltage substations located in urban areas Provides the analytical procedure for the determination of the critical ground fault position for faults appearing in outgoing transmission lines Defines testing procedure for the correct evaluation of grounding systems of substations located in urban areas Flat Panel Display Manufacturing** *John Wiley & Sons* **An extensive introduction to the engineering and manufacture of current and next-generation flat panel displays This book provides a broad overview of the manufacturing of flat panel displays, with a particular emphasis on the display systems at the forefront of the current mobile device revolution. It is structured to cover a broad spectrum of topics within the unifying theme of display systems manufacturing. An important theme of this book is treating displays as systems, which expands the scope beyond the technologies and manufacturing of traditional display panels (LCD and OLED) to also include key components for mobile device applications, such as flexible OLED, thin LCD backlights, as well as the manufacturing of display module assemblies. Flat Panel Display Manufacturing fills an important gap in the current book literature describing the state of the art in display manufacturing for today's displays, and looks to create a reference the development of next generation displays. The editorial team brings a broad and deep perspective on flat panel display manufacturing, with a global view spanning decades of experience at leading institutions in Japan, Korea, Taiwan, and the USA, and including direct pioneering contributions to the development of displays. The book includes a total of 24 chapters contributed by experts at leading manufacturing institutions from the global FPD industry in Korea, Japan, Taiwan, Germany, Israel, and USA. Provides an overview of the evolution of display technologies and manufacturing Treats display products as systems with manifold applications, expanding the scope beyond traditional display panel manufacturing to key components for mobile devices and TV applications Provides a detailed overview of LCD manufacturing, including panel architectures, process flows, and module manufacturing Provides a detailed overview of OLED manufacturing for both mobile and TV applications, including a chapter dedicated to the young field of flexible OLED manufacturing Provides a detailed overview of the key unit processes and corresponding manufacturing equipment, including manufacturing test & repair of TFT array panels as well as display module inspection & repair Introduces key topics in display manufacturing science and engineering, including productivity & quality, factory architectures, and green manufacturing Flat Panel Display Manufacturing will appeal to professionals and engineers in R&D departments for display-related technology development, as well as to graduates and Ph.D. students specializing in LCD/OLED/other flat panel displays. Stop Giving the Fat Kid Chocolate House of Representatives Select Committee on Regional Development and Decentralisation Hydrogen Power An Introduction to Hydrogen Energy and Its Applications** *Elsevier* **Hydrogen Power: An Introduction to Hydrogen Energy and its Applications explains how hydrogen is produced, used, and handled and shows that the use of chemical hydrogen power has enormous advantages as an energy storage, transport, and use medium. Organized into seven chapters, this book first describes the chemical and physical properties of hydrogen. Subsequent chapters elucidate the current industrial uses of hydrogen, methods of producing hydrogen, and hydrogen transportation and storage. Hydrogen safety and environmental considerations are also addressed. Liquid Gold The Story of Liquid Crystal Displays and the Creation of an Industry** *World Scientific* **This book traces the history of liquid crystal display (LCD)development from simple laboratory samples to the flat, thin LCDs thathave become an important part of everyday life, appearing intelevision screens, computers, cellular phones, as well as numerousother consumer and industrial products. E-Learning: Strategies for Delivering Knowledge in the Digital Age** *McGraw Hill Professional* **Internet and intranet technologies offer tremendous opportunities to bring learning into the mainstream of business. E-Learning outlines how to develop an organization-wide learning strategy based on cutting-edge technologies and explains the dramatic strategic, organizational, and technology issues involved. Written for professionals responsible for leading the revolution in workplace learning, E-Learning takes a broad, strategic perspective on corporate learning. This wake-up call for executives everywhere discusses: • Requirements for building a viable e-learning strategy • How online learning will change the nature of training organizations • Knowledge management and other new forms of e-learning Marc J. Rosenberg, Ph.D. (Hillsborough, NJ) is an independent consultant specializing in knowledge management, e-learning strategy and the reinvention of training. Prior to this, he was a senior direction and kowledge management field leader for consulting firm DiamondCluster International. Modern Developments in X-Ray and Neutron Optics** *Springer* **This volume describes modern developments in reflective, refractive and diffractive optics for short wavelength radiation. It also covers recent theoretical approaches to modelling and ray-tracing the x-ray and neutron optical systems. It is based on the joint research activities of specialists in x-ray and neutron optics, working together under the framework of the European Programme for Cooperation in Science and Technology (COST, Action P7) in the period 2002-2006. Concerning the Spiritual in Art** *Library of Alexandria* **Modes No More Mystery** *Alfred Publishing Company, Incorporated* **Frank presents a clear and easy-to-understand guide to using modes in soloing. Frank takes a subject that guitarists often find confusing and explains it in simple terms. He covers all seven major modes and demonstrates the use of each in the context of some extraordinary solo work. Intermediate to advanced. (65 min.) Physics and Technology of Crystalline Oxide Semiconductor CAAC-IGZO Application to LSI** *John Wiley & Sons* **This book describes the application of c-axis aligned crystalline In-Ga-Zn oxide (CAAC-IGZO) technology in large-scale integration (LSI) circuits. The applications include Non-volatile Oxide Semiconductor Random Access Memory (NOSRAM), Dynamic Oxide Semiconductor Random Access Memory (DOSRAM), central processing unit (CPU), field-programmable gate array (FPGA), image sensors, and etc. The book also covers the device physics (e.g., off-state characteristics) of the CAAC-IGZO field effect transistors (FETs) and process technology for a hybrid structure of CAAC-IGZO and Si FETs. It explains an extremely low off-state current technology utilized in the LSI circuits, demonstrating reduced power consumption in LSI prototypes fabricated by the hybrid process. A further two books in the series will describe the fundamentals; and the specific application of CAAC-IGZO to LCD and OLED displays. Key features: • Outlines the physics and characteristics of CAAC-IGZO FETs that contribute to favorable operations of LSI devices. • Explains the application of CAAC-IGZO to LSI devices, highlighting attributes including low off-state current, low power consumption, and excellent charge retention. • Describes the NOSRAM, DOSRAM, CPU, FPGA, image sensors, and etc., referring to prototype chips fabricated by a hybrid process of CAAC-IGZO and Si FETs. Japanese Design** *The Museum of Modern Art* **The Museum of Modern Art and 5 Continents Editions recently launched this series of books dedicated to industrial and graphic design. Each volume offers an overview of a single country's design achievements and illustrates its particular design history and aesthetic by showcasing renowned architects and designers through exemplary works drawn from The Museum of Modern Art's unmatched collection. This season, they take on Japan. Japanese designers' special ability to combine aesthetic tradition with contemporary visual culture and material innovation has created a distinctive and exceptionally successful design industry in Japan, which has produced such divergent icons of Modern design as Sori Yanagi's Butterfly Stool, the Sony Walkman, the Honey-Pop Armchair by Tokujin Yoshioka and the Toyota Prius. This volume traces the development of Japanese design from the country's craft revival in the early twentieth century to the extraordinary objects of high technology that**

have been a specialty of Japanese designers since the middle of the century. Antonelli's lively introduction provides an overview of Japan's design culture, while an essay and timeline by Penny Sparke illuminate the masterpieces of Modern Japanese design that are superbly reproduced in this volume's plate section. Implementing the Circular Economy for Sustainable Development *Elsevier* Implementing the Circular Economy for Sustainable Development presents the concept of the circular economy with the goal of understanding its present status and how to better implement it, particularly through environmental policies. It first tackles the definition of a circular economy in the context of sustainability and the differences in defining the concept across disciplines, including its fallibilities and practical examples. It then goes on to discuss the implementation of a circular economy, including the increasing variety of technological, mechanical, and chemical procedures to contend with and the need for stakeholder support in addition to improved business models. The second half of the book, therefore, presents tools, approaches, and practical examples of how to shape environmental policy to successfully implement a circular economy. It analyzes deficiencies of current regulations and lays the groundwork for the design of integrated environmental policies for a circular economy. Authored by an expert in environmental economics with decades of experience, Implementing the Circular Economy for Sustainable Development is a timely, practical guide for sustainability researchers and policymakers alike to move more efficiently toward a circular economy and sustainable development. Presents a clear view of the critical components, features, and issues of a circular economy Discusses a variety of practical examples from current policies in the context of a circular economy to better understand the challenges associated with its implementation Analyzes strengths and weaknesses of current environmental policies and their interactions with innovations in engineering and science Middle English Dictionary *University of Michigan Press* The most important modern reference work for Middle English studies Evolution of Supply Chain Management Symbiosis of Adaptive Value Networks and ICT *Springer Science & Business Media* In the last half of the twentieth century industry encountered a revolutionary change brought about by the harnessed power of seemingly ever-increasing capacity, speed and functionality of computers and microprocessors. This strength provided management and workers within industries with new capabilities for management, planning and control, design, quality assurance and customer support. Organized information flow became the mainstay of industrial companies. New tools and information technology systems emerged and evolved to enable companies to integrate the various departments (Design, Procurement, Manufacturing, Sales and Finance) within companies, particularly the lager ones, including international corporations. This was to give them a chance to meet new demands for product time to market, just in time supply of orders, and customer support. To the smaller company these changes were not so apparent. Neither the tools nor systems nor indeed their economic value seemed appropriate to them except for special cases. While all this was happening the structure of the larger companies began to disintegrate. Strong competitive pressures and globalization of the market place brought this about. Shedding unwanted competence and subcontracting it to others became common practice. Regional market pressures triggered companies to reorganize to create, produce, and distribute goods and services. Greater dependency on chains of supply from external companies became the norm. Medium and smaller sized companies began to gain some advantage and at the same time some were sucked into management and control systems governed by the larger companies. Doll Bones *Simon and Schuster* Playing an endless make-believe game about pirates, mermaids and warriors under the rule of a formidable Great Queen china doll, best friends Zach, Poppy and Alice find their bond tested when Zach is compelled to give up their shared adventures and Poppy begins having dreams about the doll. By the co-author of the best-selling Spiderwick Chronicles. Minerals Yearbook Metals and Minerals This volume, covering metals and minerals, contains chapters on approximately 90 commodities. In addition, this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information, plus a statistical summary. Encyclopedia of the Alkaline Earth Compounds *Newnes* Encyclopedia of the Alkaline Earth Compounds is a compilation describing the physical and chemical properties of all of the alkaline earth compounds that have been elucidated to date in the scientific literature. These compounds are used in applications such as LEDs and electronic devices such as smart phones and tablet computers. Preparation methods for each compound are presented to show which techniques have been successful. Structures and phase diagrams are presented where applicable to aid in understanding the complexities of the topics discussed. With concise descriptions presenting the chemical, physical and electrical properties of any given compound, this subject matter will serve as an introduction to the field. This compendium is vital for students and scientific researchers in all fields of scientific endeavors, including non-chemists. 2013 Honorable Mention in Chemistry & Physics from the Association of American Publishers' PROSE Awards Presents a systematic coverage of all known alkaline earth inorganic compounds and their properties Provides a clear, consistent presentation based on groups facilitating easy comparisons Includes the structure of all the compounds in high quality full-color graphics Summarizes all currently known properties of the transition metals compounds Lists the uses and applications of these compounds in electronics, energy, and catalysis Getting Started with PowerShell *Packt Publishing Ltd* Learn the fundamentals of PowerShell to build reusable scripts and functions to automate administrative tasks with Windows About This Book Harness the capabilities of the PowerShell system to get started quickly with server automation Learn to package commands into a reusable script and add control structures and parameters to make them flexible Get to grips with cmdlets that allow you to perform administration tasks efficiently Who This Book Is For This book is intended for Windows administrators or DevOps users who need to use PowerShell to automate tasks. Whether you know nothing about PowerShell or know just enough to get by, this guide will give you what you need to go to take your scripting to the next level. What You Will Learn Learn to verify your installed version of PowerShell, upgrade it, and start a PowerShell session using the ISE Discover PowerShell commands and cmdlets and understand PowerShell formatting Use the PowerShell help system to understand what particular cmdlets do Utilise the pipeline to perform typical data manipulation Package your code in scripts, functions, and modules Solve common problems using basic file input/output functions Find system information with WMI and CIM Automate IIS functionality and manage it using the WebAdministration module In Detail Windows PowerShell is a task-based command-line shell and scripting language designed specifically for system administration. Built on the .NET Framework, Windows PowerShell helps IT professionals and power users control and automate the administration of the Windows operating system and applications that run on Windows. PowerShell is great for batch importing or deleting large sets of user accounts and will let you collect a massive amount of detailed system information in bulk via WMI (Windows Management Instrumentation). Getting Started with PowerShell is designed to help you get up and running with PowerShell, taking you from the basics of installation, to writing scripts and web server automation. This book, as an introduction to the central topics of PowerShell, covers finding and understanding PowerShell commands and packaging code for reusability, right through to a practical example of automating IIS. It also includes topics such as installation and setup, creating scripts, automating tasks, and using Powershell to access data stores, registry, and file systems. You will explore the PowerShell environment and discover how to use cmdlets, functions, and scripts to automate Windows systems. Along the way, you will learn to perform data manipulation and solve common problems using basic file input/output functions. By the end of this book, you will be familiar with PowerShell and be able to utilize the lessons learned from the book to automate your servers. Style and approach A practical learning guide, complete with plenty of activities, examples and screenshots. Cut From Darkness *Midnight World* Dalivia Plaut invites you into a mysterious world of horror and fantasy known as Midnight World. In this fist volume filled with four extraordinary tales, Plaut will act as your own personal tour guide as she explores the darkest corners of humanity and the depths these characters will venture in order to satisfy their own personal desires. Environment and Society A Critical Introduction *John Wiley & Sons* Substantially updated for the second edition, this engaging and innovative introduction to the environment and society uses key theoretical approaches to explore familiar objects. Features substantial revisions and updates for the second edition, including new chapters on E waste, mosquitoes and uranium, improved maps and graphics, new exercises, shorter theory chapters, and refocused sections on environmental solutions Discusses topics such as population and scarcity, commodities, environmental ethics, risks and hazards, and political economy and applies them to objects like bottled water, tuna, and trees Accessible for students, and accompanied by in-book and online resources including exercises and boxed discussions, an online test bank, notes, suggested reading, and website links for enhanced understanding Offers additional online support for instructors, including suggested teaching models, PowerPoint slides for each chapter with full-color graphics, and supplementary images and teaching material Ethical Hacker's Certification Guide (CEHv11) A comprehensive guide on Penetration Testing including Network Hacking, Social Engineering, and Vulnerability Assessment (English Edition) *BPB Publications* Dive into the world of securing digital networks, cloud, IoT, mobile infrastructure, and much more. KEY FEATURES ● Courseware and practice papers with solutions for C.E.H. v11. ● Includes hacking tools, social engineering techniques, and live exercises. ● Add on coverage on Web apps, IoT, cloud, and mobile Penetration testing. DESCRIPTION The 'Certified Ethical Hacker's Guide' summarises all the ethical hacking and penetration testing fundamentals you'll need to get started professionally in the digital security landscape. The readers will be able to approach the objectives globally, and the knowledge will enable them to analyze and structure the hacks and their findings in a better way. The book begins by making you ready for the journey of a seasonal, ethical hacker. You will get introduced to very specific topics such as reconnaissance, social engineering, network intrusion, mobile and cloud hacking, and so on. Throughout the book, you will find many practical scenarios and get hands-on experience using tools such as Nmap, BurpSuite, OWASP ZAP, etc. Methodologies like brute-forcing, wardriving, evil twining, etc. are explored in detail. You will also gain a stronghold on theoretical concepts such as hashing, network protocols, architecture, and data encryption in real-world environments. In the end, the evergreen bug bounty programs and traditional career paths for safety professionals will be discussed. The reader will also have practical tasks and self-assessment exercises to plan further paths of learning and certification. WHAT YOU WILL LEARN ● Learn methodologies, tools, and techniques of penetration testing and ethical hacking. ● Expert-led practical demonstration of tools and tricks like nmap, BurpSuite, and OWASP ZAP. ● Learn how to perform brute forcing, wardriving, and evil twinning. ● Learn to gain and maintain access to remote systems. ● Prepare detailed tests and execution plans for VAPT (vulnerability assessment and penetration testing) scenarios. WHO THIS BOOK IS FOR This book is intended for prospective and seasonal cybersecurity lovers who want to master cybersecurity and ethical hacking. It also assists software engineers, quality analysts, and penetration testing companies who want to keep up with changing cyber risks. TABLE OF CONTENTS 1. Cyber Security, Ethical Hacking, and Penetration Testing 2. CEH v11 Prerequisites and Syllabus 3. Self-Assessment 4. Reconnaissance 5. Social Engineering 6. Scanning Networks 7. Enumeration 8. Vulnerability Assessment 9. System Hacking 10. Session Hijacking 11. Web Server Hacking 12. Web Application Hacking 13. Hacking Wireless Networks 14. Hacking Mobile Platforms 15. Hacking Clout, IoT, and OT Platforms 16. Cryptography 17. Evading Security Measures 18. Practical Exercises on Penetration Testing and Malware Attacks 19. Roadmap for a Security Professional 20. Digital Compliances and Cyber Laws 21. Self-Assessment-1 22. Self-Assessment-2 A History of Industrial Design *Van Nostrand Reinhold Company* The first part of this book traces the pre-history of industrial design through the Industrial Revolution and the pioneer days of the Bauhaus to the emergence of a fully-fledged industrial design profession with many roles in modern consumer society. Part two retraces some of the same ground in a series of case studies examining the evolution of design in such fields as transport, furniture, kitchenware, communications, office equipment and packaging. Monthly Budget Planner Monthly Weekly Daily Budget Planner (Undated - Start Any Time) Bill Tracker Budget Financial Planner for Hermit Crab Owners and Lovers Daily Weekly Monthly Yearly Budget Planner The Daily Weekly & Monthly Bill Planner and Organizer provide a ultimate way to organize your bills and plan for your income and expenses. This budget planner journal comprises of neatly organized spaces for the day, week and month that you wish to plan your expenses in single daily details and account for your bills. BOOK DETAILS Account budget tracker Monthly bills tracker Weekly expense tracker Daily expense tracker from Monday to Sunday Yearly Budget Worksheet Cover Design: Matte Cover with Lovely Dog Puppy Graphic 8.5x11 inch size paper This budget planner includes worksheets to help you control your spending and see where the money goes each month. Give it to your family members, co-worker who love Hermit Crabs in any occasion as a gift as Birthday, Christmas, Thanksgiving, New Year... What are you waiting for? Scroll up and buy now! Sustainable Energy Management *Academic Press* While the last few decades have witnessed incredible leaps forward in the technology of energy production, technological innovation can only be as transformative as its implementation and management allows. The burgeoning fields of renewable, efficient and sustainable energy have moved past experimentation toward realization, necessitating the transition to more sustainable energy management practices. Energy Management is a collective term for all the systematic practices to minimize and control both the quantity and cost of energy used in providing a service. This new book reports from the forefront of the energy struggle in the developing world, offering a guide to implementation of sustainable energy management in practice. The authors provide new paradigms for measuring energy

sustainability, pragmatic methods for applying renewable resources and efficiency improvements, and unique insights on managing risk in power production facilities. The book highlights the possible financial and practical impacts of these activities, as well as the methods of their calculation. The authors' guidelines for planning, analyzing, developing, and optimizing sustainable energy production projects provide vital information for the nations, corporations, and engineering firms that must apply exciting new energy technology in the real world. Shows engineering managers and project developers how to transition smoothly to sustainable practices that can save up to 25% in energy costs! Features case studies from around the world, explaining the whys and hows of successes and failures in China, India, Brazil, the US and Europe Covers a broad spectrum of energy development issues from planning through realization, emphasizing efficiency, scale-up of renewables and risk mitigation Includes software on a companion website to make calculating efficiency gains quick and simple Miscellaneous Writings of F. W. Grant, Volume 1 *Wipf and Stock Publishers* Principles of Transistor Circuits Introduction to the Design of Amplifiers, Receivers and Digital Circuits *Elsevier* For over thirty years, Stan Amos has provided students and practitioners with a text they could rely on to keep them at the forefront of transistor circuit design. This seminal work has now been presented in a clear new format and completely updated to include the latest equipment such as laser diodes, Trapatt diodes, optocouplers and GaAs transistors, and the most recent line output stages and switch-mode power supplies. Although integrated circuits have widespread application, the role of discrete transistors is undiminished, both as important building blocks which students must understand and as practical solutions to design problems, especially where appreciable power output or high voltage is required. New circuit techniques covered for the first time in this edition include current-dumping amplifiers, bridge output stages, dielectric resonator oscillators, crowbar protection circuits, thyristor field timebases, low-noise blocks and SHF amplifiers in satellite receivers, video clamps, picture enhancement circuits, motor drive circuits in video recorders and camcorders, and UHF modulators. The plan of the book remains the same: semiconductor physics is introduced, followed by details of the design of transistors, amplifiers, receivers, oscillators and generators. Appendices provide information on transistor manufacture and parameters, and a new appendix on transistor letter symbols has been included. Networking All-in-One For Dummies *John Wiley & Sons* The bestselling guide for network administrators, fully updated for Windows 8 If you're responsible for a network, large or small, this book is your one-stop resource for all the essential details you need to know. Fully updated to cover Windows 8 and Windows Server 2012, it features the latest on broadband technologies, storage, backup procedures, and all the current networking trends. Nine handy minibooks cover the basics, building a network, administration and security, TCP/IP and the Internet, wireless networking, mobile networking, Windows Server 2012, using other Windows servers, and managing Linux systems. A proven bestseller, with more than 111,000 copies sold in four previous editions Written by veteran IT expert Doug Lowe, who has more than 50 technology books to his credit Provides one-stop shopping for everything networking professionals need to keep large or small networks functioning efficiently Updated with the latest information on building and administering a network, security, wireless and mobile networking, using Windows servers, working with Linux systems, and much more Networking All-in-One For Dummies, 5th Edition provides what network administrators need to know in a handy, easy-to-use reference. Docker A Quick-start Beginner's Guide *Createspace Independent Publishing Platform* Docker - A Quick Start Beginners Guide Welcome to "Docker: A Quick Introduction To Using Docker Containers Today." This is the best guide for people who want to use Docker as well as implement container-based virtualization. You should not shy away from Docker containers because you lack the knowledge to implement them. All you have to do is completely engage this book. We have divided the book into chapters to make it easier for you to go through. The different topics covered are: Playing with Busybox Docker Run Terminology Webapps with Docker Static Sites Docker Images Our First Image Dockerfile Docker on AWS & much more Take Action Today and Learn Docker In No Time! Click the "Buy now with 1-Click" to the right and get this guide immediately. Mirror Motives Book One of the Immortal Empires Trilogy Mirror Motives introduces a completely new world for fantasy and historical fiction lovers alike. Set in a parallel dimension where the greatly outnumbered five Ancient Races rule the Starborn and Newborn races by virtue of their powerful magic, the story twists and turns, woven from the point of view of well-developed characters. The greatest general and Arval Master Maximillian Praedatorus abdicates with his Empress in favor of their sixteen year old son, according to Imperial Decree. That's when Rome's enemies rise in a frenzy of deep-seeded rage to bring down the Ancient Races. Queen Furia, secretly the leader of the Cloud Dancer assassins, plots to regain the Iron Throne. Thascius Gildo, her lover, vows revenge on the Northern Empire for exiling his family. Tiberius Tarquinius escapes pirates and vampires in a vainglorious attempt to free the dragons. Sultan Sargon of Persia commands the extremely powerful and equally wicked Eye of Sydyll. Wyrmkyn shapeshifters murder and become those they murdered in a colossal covert invasion. And try as she might, Vestal Virgin Aunt Julia cannot avoid war as hatred incarnate, the Marune called He Who Stands Alone, brings to fruition his latest attempt to destroy mankind. Political plot intrigues, complicated with magic and bold-faced lies, manipulations, and a little love, whirl in this novel of powerful, beautiful women, great heroes, and even greater villains. It is the precursor to a comprehensive and unique Role-Playing Game system to be released by Skyborn Studios in the near future. Military Politics of the Contemporary Arab World *Cambridge University Press* Aside from large-scale civic mobilisations, no force was more critical to the outcomes of the 2011 Arab uprisings than the armed forces. Nearly a decade after these events, we see militaries across the region in power, once again performing critical roles in state politics. Taking as a point of reference five case studies where uprisings took place in 2011, Tunisia, Egypt, Libya, Yemen and Syria, Philippe Droz-Vincent explores how these armies were able to install themselves for decades under enduring authoritarian regimes, how armies reacted to the 2011 Uprisings, and what role they played in the post-Uprising regime re-formations or collapses. Devoting a chapter to monarchical armies with a special focus on Saudi Arabia and the UAE, Droz-Vincent addresses whether monarchies radically differ from republics, to compare the foundational role of Arab armies in state building, in the Arab world and beyond. Sams Teach Yourself PHP, MySQL and Apache in 24 Hours *Sams Publishing* Explains how to create Web sites using the PHP scripting language, the MySQL database system, and the Apache Web server on a Windows or Linux system. America Unchained *Random House* The plan was simple. Go to America. Buy a second-hand car. Drive coast-to-coast without giving any money to The ManTM. What could possibly go wrong? Dismayed by the relentless onslaught of faceless American chains muscling in where local businesses had once thrived, Dave Gorman set off on the ultimate American road trip - in search of the true, independent heart of the U S of A. He would eat cherry pie from local diners, re-fuel at dusty gas stations and stock up on supplies from Mom and Pop's grocery store. At least that was the idea. But when did you last see an independent gas station? Gamely, Dave beds down in a Colorado trailer park, sleeps in an Oregon forest treehouse, and even spends Thanksgiving with a Mexican family in Kansas. But when his road trip mutates into an odyssey of near-epic proportions and he finds himself being threatened at gun point in Mississippi, Dave starts to worry about what's going to break down next. The car... or him? Practical TCP/IP and Ethernet Networking for Industry *Newnes* Preface; Introduction to Communications; Networking Fundamentals; Ethernet Networks; Fast and Gigabit Ethernet Systems; Introduction to TCP/IP; Internet Layer Protocols; Host to Host Layer Protocols; Application Layer Protocols; TCP/IP Utilities; LAN System Components; The Internet; Internet Access; The Internet for Communications; Security Considerations; Process Automation; Installing and Troubleshooting TCP/IP; Satellites and TCP/IP. Building the Web of Things With examples in Node.js and Raspberry Pi *Simon and Schuster* Summary A hands-on guide that will teach how to design and implement scalable, flexible, and open IoT solutions using web technologies. This book focuses on providing the right balance of theory, code samples, and practical examples to enable you to successfully connect all sorts of devices to the web and to expose their services and data over REST APIs. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Because the Internet of Things is still new, there is no universal application protocol. Fortunately, the IoT can take advantage of the web, where IoT protocols connect applications thanks to universal and open APIs. About the Book Building the Web of Things is a guide to using cutting-edge web technologies to build the IoT. This step-by-step book teaches you how to use web protocols to connect real-world devices to the web, including the Semantic and Social Webs. Along the way you'll gain vital concepts as you follow instructions for making Web of Things devices. By the end, you'll have the practical skills you need to implement your own web-connected products and services. What's Inside Introduction to IoT protocols and devices Connect electronic actuators and sensors (GPIO) to a Raspberry Pi Implement standard REST and Pub/Sub APIs with Node.js on embedded systems Learn about IoT protocols like MQTT and CoAP and integrate them to the Web of Things Use the Semantic Web (JSON-LD, RDFa, etc.) to discover and find Web Things Share Things via Social Networks to create the Social Web of Things Build a web-based smart home with HTTP and WebSocket Compose physical mashups with EVRYTHNG, Node-RED, and IFTTT About the Reader For both seasoned programmers and those with only basic programming skills. About the Authors Dominique Guinard and Vlad Trifa pioneered the Web of Things and cofounded EVRYTHNG, a large-scale IoT cloud powering billions of Web Things. Table of Contents PART 1 BASICS OF THE IOT AND THE WOT From the Internet of Things to the Web of Things Hello, World Wide Web of Things Node.js for the Web of Things Getting started with embedded systems Building networks of Things PART 2 BUILDING THE WOT Access: Web APIs for Things Implementing Web Things Find: Describe and discover Web Things Share: Securing and sharing Web Things Modern Movie Songs *Hal Leonard Publishing Corporation* (Big Note Songbook). 16 songs from contemporary blockbuster movies arranged for Big Note Piano. Includes: The Ballad of the Lonesome Cowboy (from Toy Story 4) * Crazy Little Thing Called Love (from Bohemian Rhapsody) * Downton Abbey (Theme) * A Million Dreams (from The Greatest Showman) * The Place Where Lost Things Go (from Mary Poppins Returns) * Shallow (from A Star Is Born) * Speechless (from Aladdin) * Yesterday * Zero (from Ralph Breaks the Internet) * and more. Hacking: A Beginners Guide to Your First Computer Hack; Learn to Crack a Wireless Network, Basic Security Penetration Made Easy *My eBook* Hacking will demand your full dedication and interest and also a desire and a craving for knowledge and constant advancement. If your goal is to be a hacker, this is the book to start with!. Today only, get this bestseller for a special price. This book contains proven steps and strategies on how to hack a Wireless Network, carry out a penetration test and so much more. It gives an insight to the most used hacking techniques and how to develop your basic skills Here Is A Preview Of What You'll Learn... What is Hacking? How to Crack Wireless Networks Kali Linux Linux Hacking Tools Penetration Test Your First Hack: WEP Network And basically everything you need to help you to start your Hacking career Get your copy today! Take action today and buy this book now at a special price! 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