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### **KEY=ALCATEL - SHANIYA DANIELA**

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### **BLOWN TO BITS**

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### **YOUR LIFE, LIBERTY, AND HAPPINESS AFTER THE DIGITAL EXPLOSION**

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Addison-Wesley Professional Every day, billions of photographs, news stories, songs, X-rays, TV shows, phone calls, and emails are being scattered around the world as sequences of zeroes and ones: bits. We can't escape this explosion of digital information and few of us want to—the benefits are too seductive. The technology has enabled unprecedented innovation, collaboration, entertainment, and democratic participation. But the same engineering marvels are shattering centuries-old assumptions about privacy, identity, free expression, and personal control as more and more details of our lives are captured as digital data. Can you control who sees all that personal information about you? Can email be truly confidential, when nothing seems to be private? Shouldn't the Internet be censored the way radio and TV are? Is it really a federal crime to download music? When you use Google or Yahoo! to search for something, how do they decide which sites to show you? Do you still have free speech in the digital world? Do you have a voice in shaping government or corporate policies about any of this? *Blown to Bits* offers provocative answers to these questions and tells intriguing real-life stories. This book is a wake-up call to the human consequences of the digital explosion.

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### **INTRODUCTION TO EMBEDDED SYSTEMS, SECOND EDITION**

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### **A CYBER-PHYSICAL SYSTEMS APPROACH**

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MIT Press An introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human consumption. The vast majority of computers in use, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station. They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering concepts underlying embedded systems as a technology and as a subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, several new exercises, and other improvements. The book can be used as a textbook at the advanced undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer scientists. Readers should have some familiarity with machine structures, computer programming, basic discrete mathematics and algorithms, and signals and systems.

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### **PARENTOLOGY**

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### **EVERYTHING YOU WANTED TO KNOW ABOUT THE SCIENCE OF RAISING CHILDREN BUT WERE TOO EXHAUSTED TO ASK**

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Simon and Schuster An award-winning scientist offers his unorthodox approach to childrearing: "Parentology is brilliant, jaw-droppingly funny, and full of wisdom...bound to change your thinking about parenting and its conventions" (Amy Chua, author of *Battle Hymn of the Tiger Mother*). If you're like many parents, you might ask family and friends for advice when faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed childrearing advice, he turned to scientific research to make the big decisions. In *Parentology*, Conley hilariously reports the results of those experiments, from bribing his kids to do math (since studies show conditional cash transfers improved educational and health outcomes for kids) to teaching them impulse control by giving them weird names (because evidence shows kids with unique names learn not to react when their peers tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because that level of engagement with kids will produce solid and happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley's sassy kids show him the limits of his profession. *Parentology* teaches you everything you need to know about the latest literature on parenting—with lessons that go down easy. You'll be laughing and learning at the same time.

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## **MUNICIPAL JOURNAL, PUBLIC WORKS ENGINEER CONTRACTOR'S GUIDE**

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### **COMPUTER NETWORKING**

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#### **A TOP-DOWN APPROACH**

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Addison-Wesley Longman Computer Networking provides a top-down approach to this study by beginning with applications-level protocols and then working down the protocol stack. Focuses on a specific motivating example of a network-the Internet-as well as introducing students to protocols in a more theoretical context. New short "interlude" on "putting it all together" that follows the coverage of application, transport, network, and datalink layers ties together the various components of the Internet architecture and identifying aspects of the architecture that have made the Internet so successful. A new chapter covers wireless and mobile networking, including in-depth coverage of Wi-Fi, Mobile IP and GSM. Also included is expanded coverage on BGP, wireless security and DNS. This book is designed for readers who need to learn the fundamentals of computer networking. It also has extensive material, on the very latest technology, making it of great interest to networking professionals.

### **PRACTICAL IOT HACKING**

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#### **THE DEFINITIVE GUIDE TO ATTACKING THE INTERNET OF THINGS**

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No Starch Press Written by all-star security experts, Practical IoT Hacking is a quick-start conceptual guide to testing and exploiting IoT systems and devices. Drawing from the real-life exploits of five highly regarded IoT security researchers, Practical IoT Hacking teaches you how to test IoT systems, devices, and protocols to mitigate risk. The book begins by walking you through common threats and a threat modeling framework. You'll develop a security testing methodology, discover the art of passive reconnaissance, and assess security on all layers of an IoT system. Next, you'll perform VLAN hopping, crack MQTT authentication, abuse UPnP, develop an mDNS poisoner, and craft WS-Discovery attacks. You'll tackle both hardware hacking and radio hacking, with in-depth coverage of attacks against embedded IoT devices and RFID systems. You'll also learn how to: Write a DICOM service scanner as an NSE module Hack a microcontroller through the UART and SWD interfaces Reverse engineer firmware and analyze mobile companion apps Develop an NFC fuzzer using Proxmark3 Hack a smart home by jamming wireless alarms, playing back IP camera feeds, and controlling a smart treadmill The tools and devices you'll use are affordable and readily available, so you can easily practice what you learn. Whether you're a security researcher, IT team member, or hacking hobbyist, you'll find Practical IoT Hacking indispensable in your efforts to hack all the things **REQUIREMENTS:** Basic knowledge of Linux command line, TCP/IP, and programming

### **AT&T RELIABILITY MANUAL**

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Springer Science & Business Media Partial Contents: Reliability Concepts; Device Reliability; Hazard Rates; Monitoring Reliability; Specific Device Information, and more. Appendixes. 60 illustrations.

### **MULTILINGUAL COMPUTING & TECHNOLOGY**

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#### **SIRI FOR DUMMIES**

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John Wiley & Sons Find out what Siri's got up her sleeve with this fun and friendly guide! Who couldn't use a little extra help these days? Answers, information, reminders, and all sorts of additional help are only a verbal query away with Siri, the artificial intelligence personal assistant. Siri made her debut with the iPhone 4 and is now updated for iOS 6 as well as the third-generation iPad and she is ready to assist! This easy-to-understand guide walks you through the vast array of capabilities that Siri boasts, from creating texts and e-mails from dictation to getting directions to finding a restaurant in the area. You'll discover how to check the weather, get sports scores and schedules, look up a movie review, get Facebook and Twitter updates, make dinner reservations, and much more. Explains how to finesse the perfectly worded questions for Siri in order to get the most helpful and accurate answers Details how to have Siri make phone calls for you, look up information in a dictionary or on the web, or get music Walks you through using Siri to get stock quotes or enter numbers into a calculator and get an answer Shows you how to use Siri to set reminders and alarms, take notes, get turn-by-turn driving directions, and more Just like Siri, the straightforward-but-fun Siri For Dummies is here to help you!

### **AUTOMOTIVE EMBEDDED SYSTEMS HANDBOOK**

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CRC Press A Clear Outline of Current Methods for Designing and Implementing Automotive Systems Highlighting requirements, technologies, and business models, the Automotive Embedded Systems Handbook provides a comprehensive overview of existing and future automotive electronic systems. It presents state-of-the-art methodological and technical solutions in the areas of in-vehicle architectures, multipartner development processes, software engineering methods, embedded communications, and safety and dependability assessment. Divided into four parts, the book begins with an introduction to the design constraints of automotive-embedded systems. It also examines AUTOSAR as the emerging de facto standard and looks at how key technologies, such as sensors and wireless networks, will facilitate the conception of partially and fully autonomous vehicles. The next section focuses on networks and protocols, including CAN, LIN, FlexRay, and TTCAN. The third part explores the design processes of electronic embedded systems, along with new design methodologies, such as the virtual platform. The final section

presents validation and verification techniques relating to safety issues. Providing domain-specific solutions to various technical challenges, this handbook serves as a reliable, complete, and well-documented source of information on automotive embedded systems.

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## **FUNDAMENTALS OF MASSIVE MIMO**

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Cambridge University Press Written by pioneers of the concept, this is the first complete guide to the physical and engineering principles of Massive MIMO. Assuming only a basic background in communications and statistical signal processing, it will guide readers through key topics in multi-cell systems such as propagation modeling, multiplexing and de-multiplexing, channel estimation, power control, and performance evaluation. The authors' unique capacity-bounding approach will enable readers to carry out effective system performance analyses and develop advanced Massive MIMO techniques and algorithms. Numerous case studies, as well as problem sets and solutions accompanying the book online, will help readers put knowledge into practice and acquire the skill set needed to design and analyze complex wireless communication systems. Whether you are a graduate student, researcher, or industry professional working in the field of wireless communications, this will be an indispensable guide for years to come.

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## **OFF THE NETWORK**

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### **DISRUPTING THE DIGITAL WORLD**

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U of Minnesota Press 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.

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## **AND ONE HAND ON THE BENCH**

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### **THE FIRST CENTURY OF THE DEPARTMENT OF PLANT PATHOLOGY AT THE UNIVERSITY OF WISCONSIN-MADISON**

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Board of Regents of University of Wisconsin System Accompanied by CD with pdf text of this volume and text of *With one foot in the furrow: a history of the first seventy-five years of the Department of Plant Pathology at the University of Wisconsin-Madison*, edited by Paul H. Williams, Melissa Marosy.

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## **INTERNET OF THINGS FROM HYPE TO REALITY**

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### **THE ROAD TO DIGITIZATION**

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Springer 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

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## DEMYSTIFYING INTERNET OF THINGS SECURITY

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### SUCCESSFUL IOT DEVICE/EDGE AND PLATFORM SECURITY DEPLOYMENT

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**Apress** Break down the misconceptions of the Internet of Things by examining the different security building blocks available in Intel Architecture (IA) based IoT platforms. This open access book reviews the threat pyramid, secure boot, chain of trust, and the SW stack leading up to defense-in-depth. The IoT presents unique challenges in implementing security and Intel has both CPU and Isolated Security Engine capabilities to simplify it. This book explores the challenges to secure these devices to make them immune to different threats originating from within and outside the network. The requirements and robustness rules to protect the assets vary greatly and there is no single blanket solution approach to implement security. Demystifying Internet of Things Security provides clarity to industry professionals and provides an overview of different security solutions. What You'll Learn Secure devices, immunizing them against different threats originating from inside and outside the network. Gather an overview of the different security building blocks available in Intel Architecture (IA) based IoT platforms. Understand the threat pyramid, secure boot, chain of trust, and the software stack leading up to defense-in-depth. Who This Book Is For Strategists, developers, architects, and managers in the embedded and Internet of Things (IoT) space trying to understand and implement the security in the IoT devices/platforms.

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## BACKSTAGE LEADERSHIP

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### THE INVISIBLE WORK OF HIGHLY EFFECTIVE LEADERS

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**Springer Nature** Most of us would recognize a star leader by their charisma, emotional intelligence and public communication prowess. What is truly impressive but often overlooked is the silent work of leadership that garners real results. Exercising influence in a complex and global organization - whilst also shaping and executing strategies across borders in a disruptive age - is the true mark of success as a leader. Backstage Leadership takes a comprehensive look at the background processes that leaders must master in order to shape the culture, direction and capability of a successful company. With an emphasis on strategy, the author provides an integrated toolkit for developing your knowledge and skills as a 'backstage leader.' You will learn how to: Mobilize people towards new strategic directions. Scan your business environment for threats and disruptive forces. Diagnose and help to shape the culture of your organization. Develop talent and capabilities towards a specific goal. Focusing on the key and consistent underlying processes of leadership, this book is essential reading for managers who wish to bring focus and coherence to their leadership role and integrate themselves within the engine of the organization.

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## PRINCIPLES FOR SUCCESS

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**Simon and Schuster** An entertaining, illustrated adaptation of Ray Dalio's Principles, the #1 New York Times bestseller that has sold more than two million copies worldwide. Principles for Success distills Ray Dalio's 600-page bestseller, Principles: Life & Work, down to an easy-to-read and entertaining format that's accessible to readers of all ages. It contains the key elements of the unconventional principles that helped Dalio become one of the world's most successful people—and that have now been read and shared by millions worldwide—including how to set goals, learn from mistakes, and collaborate with others to produce exceptional results. Whether you're already a fan of the ideas in Principles or are discovering them for the first time, this illustrated guide will help you achieve success in having the life that you want to have.

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## WIPO TECHNOLOGY TRENDS 2019 - ARTIFICIAL INTELLIGENCE

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**WIPO** The first report in a new flagship series, WIPO Technology Trends, aims to shed light on the trends in innovation in artificial intelligence since the field first developed in the 1950s.

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## JBoss EAP6 HIGH AVAILABILITY

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**Packt Publishing Ltd** An easy-to-follow guide full of hands-on examples of real-world administration tasks. JBoss EAP6 High Availability is ideal for those who want to learn how to use JBoss EAP6 to set up a cluster. Basic knowledge of Linux/Unix is required.

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## STRATEGIES FOR E-BUSINESS

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### CONCEPTS AND CASES ON VALUE CREATION AND DIGITAL BUSINESS TRANSFORMATION

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**Springer Nature** This is the fourth edition of a unique textbook that provides extensive coverage of the evolution, the current state, and the practice of e-business strategies. It provides a solid introduction to understanding e-business and e-commerce by combining fundamental concepts and application models with practice-based case studies. An ideal classroom companion for business schools, the authors use their extensive knowledge to show how corporate strategy can imbibe and thrive by adopting vibrant e-business frameworks with proper tools. Students will gain a thorough knowledge of developing electronic and mobile commerce strategies and the methods to deal with these issues and challenges.

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## THE FUTURE HOME IN THE 5G ERA

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## **NEXT GENERATION STRATEGIES FOR HYPER-CONNECTED LIVING**

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Kogan Page Publishers The Future Home in the 5G Era looks at new hyper-connected home environments in which devices and apps will work together seamlessly to respond to and anticipate customers' needs, all with maximum security and privacy. Enabled by 5G, AI, and other new technologies such as eSim and edge computing, the Future Home's powerful service ecosystems will be a quantum leap from today's fragmented smart home technology, effectively extending the boundaries of the home even beyond the traditional bounds of the physical, to ultimately make consumers feel 'at home' anywhere. This will create tremendous opportunities for businesses including communication service providers (CSPs), device manufacturers and app developers, as well as those providing services in diverse sectors such as entertainment, health and social care, education, retail, and more. The Future Home in the 5G Era combines original research from Accenture with practical insights and examples, showing how intelligently orchestrated Future Homes can yield economic success for businesses. Written by leaders of strategy and technology consultancy at Accenture, the authors have vast industry experience leading major units of Fortune 500 companies and start-ups. This book looks at how businesses, especially CSPs, can overcome the challenges and capture the multi-billion-dollar Future Home market by putting strategic emphasis on excellent customer experiences, developing new business models, and turning their organizations into competitively agile platform-based innovators. For business leaders in any sector relevant to the Future Home, this book is an indispensable and value-creating guide.

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## **MANAGING BUSINESS RELATIONSHIPS**

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Wiley Global Education No company is an island in the world of business. Each company is locked into a complex network of relationships with its customers, suppliers and other counterparts. What happens in these relationships is critical to the success of any business. Managing a company's relationships and its position in the network is a central, but often misunderstood aspect of business. This new edition of Managing Business Relationships aims to help managers and students understand the reality of business networks and how to manage in them. It has been entirely rewritten to include the latest thinking and research from the IMP (Industrial Marketing and Purchasing) Group and includes new chapters on Intermediation in Business Networks, the Economics of Business Relationships and the Practice of Business Networking. Features:

- Provides a structured way to understand business networks and their meaning for the practicing manager.
- Offers a complete analysis of management in different relationships including those with customers, suppliers, distributors and development counterparts.
- Presents a practical analysis of the problems and choices that managers face in developing and changing their relationships and a guide to the critical skills of business networking.

The book is vital reading for students of business marketing, purchasing, business networks and relationship management. It is also a valuable resource for all managers operating in business networks, including those in marketing, purchasing, strategy, technical development and distribution.

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## **IOT FUNDAMENTALS**

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### **NETWORKING TECHNOLOGIES, PROTOCOLS, AND USE CASES FOR THE INTERNET OF THINGS**

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Cisco Press Today, billions of devices are Internet-connected, IoT standards and protocols are stabilizing, and technical professionals must increasingly solve real problems with IoT technologies. Now, five leading Cisco IoT experts present the first comprehensive, practical reference for making IoT work. IoT Fundamentals brings together knowledge previously available only in white papers, standards documents, and other hard-to-find sources—or nowhere at all. The authors begin with a high-level overview of IoT and introduce key concepts needed to successfully design IoT solutions. Next, they walk through each key technology, protocol, and technical building block that combine into complete IoT solutions. Building on these essentials, they present several detailed use cases, including manufacturing, energy, utilities, smart+connected cities, transportation, mining, and public safety. Whatever your role or existing infrastructure, you'll gain deep insight what IoT applications can do, and what it takes to deliver them. Fully covers the principles and components of next-generation wireless networks built with Cisco IOT solutions such as IEEE 802.11 (Wi-Fi), IEEE 802.15.4-2015 (Mesh), and LoRaWAN Brings together real-world tips, insights, and best practices for designing and implementing next-generation wireless networks Presents start-to-finish configuration examples for common deployment scenarios Reflects the extensive first-hand experience of Cisco experts

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## **THE BUSINESS OF PLATFORMS**

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### **STRATEGY IN THE AGE OF DIGITAL COMPETITION, INNOVATION, AND POWER**

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HarperCollins A trio of experts on high-tech business strategy and innovation reveal the principles that have made platform businesses the most valuable firms in the world and the first trillion-dollar companies. Managers and entrepreneurs in the digital era must learn to live in two worlds—the conventional economy and the platform economy. Platforms that operate for business purposes usually exist at the level of an industry or ecosystem, bringing together individuals and organizations so they can innovate and interact in ways not otherwise possible. Platforms create economic value far beyond what we see in conventional companies. The Business of Platforms is an invaluable, in-depth look at platform strategy and digital innovation. Cusumano, Gawer, and Yoffie address how a small number of companies have come to exert extraordinary influence over every dimension of our personal, professional, and political lives. They explain how these new entities differ from the powerful corporations of the past. They also question whether there are limits to the market dominance and expansion of these digital juggernauts. Finally, they discuss the role governments should play in rethinking data privacy laws, antitrust, and other regulations that could reign in

abuses from these powerful businesses. Their goal is to help managers and entrepreneurs build platform businesses that can stand the test of time and win their share of battles with both digital and conventional competitors. As experts who have studied and worked with these firms for some thirty years, this book is the most authoritative and timely investigation yet of the powerful economic and technological forces that make platform businesses, from Amazon and Apple to Microsoft, Facebook, and Google—all dominant players in shaping the global economy, the future of work, and the political world we now face.

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## **INTERNET OF THINGS**

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### **CONVERGING TECHNOLOGIES FOR SMART ENVIRONMENTS AND INTEGRATED ECOSYSTEMS**

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**River Publishers** The book aims to provide a broad overview of various topics of the Internet of Things (IoT) from the research and development priorities to enabling technologies, architecture, security, privacy, interoperability and industrial applications. It is intended to be a stand-alone book in a series that covers the Internet of Things activities of the IERC - Internet of Things European Research Cluster - from technology to international cooperation and the global "state of play." The book builds on the ideas put forward by the European Research Cluster on the Internet of Things Strategic Research and Innovation Agenda and presents views and state of the art results on the challenges facing the research, development and deployment of IoT at the global level. Today we see the integration of Industrial, Business and Consumer Internet which is bringing together the Internet of People, Internet of Things, Internet of Energy, Internet of Vehicles, Internet of Media, Services and Enterprises in forming the backbone of the digital economy, the digital society and the foundation for the future knowledge and innovation based economy. These developments are supporting solutions for the emerging challenges of public health, aging population, environmental protection and climate change, the conservation of energy and scarce materials, enhancements to safety and security and the continuation and growth of economic prosperity. Penetration of smartphones and advances in nanoelectronics, cyber-physical systems, wireless communication, software, and Cloud computing technology will be the main drivers for IoT development. The IoT contribution is seen in the increased value of information created by the number of interconnections among things and the transformation of the processed information into knowledge shared into the Internet of Everything. The connected devices are part of ecosystems connecting people, processes, data, and things which are communicating in the Cloud using the increased storage and computing power while attempting to standardize communication and metadata. In this context, the next generation of Cloud computing technologies will need to be flexible enough to scale autonomously, adaptive enough to handle constantly changing connections and resilient enough to stand up to the huge flows of data that will occur. In 2025, analysts forecast that there will be six devices per human on the planet, which means around 50 billion more connected devices over the next 12 years. The Internet of Things market is connected to this anticipated device growth from industrial Machine to Machine (M2M) systems, smart meters and wireless sensors. Internet of Things technology will generate new services and new interfaces by creating smart environments and smart spaces with applications ranging from Smart Cities, Smart Transport, Buildings, Energy, Grid, to Smart Health and Life.

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## **THE UNDERSEA NETWORK**

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**Duke University Press** In our "wireless" world it is easy to take the importance of the undersea cable systems for granted, but the stakes of their successful operation are huge, as they are responsible for carrying almost all transoceanic Internet traffic. In *The Undersea Network* Nicole Starosielski follows these cables from the ocean depths to their landing zones on the sandy beaches of the South Pacific, bringing them to the surface of media scholarship and making visible the materiality of the wired network. In doing so, she charts the cable network's cultural, historical, geographic and environmental dimensions. Starosielski argues that the environments the cables occupy are historical and political realms, where the network and the connections it enables are made possible by the deliberate negotiation and manipulation of technology, culture, politics and geography. Accompanying the book is an interactive digital mapping project, where readers can trace cable routes, view photographs and archival materials, and read stories about the island cable hubs.

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## **BLACK ENTERPRISE**

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**BLACK ENTERPRISE** is the ultimate source for wealth creation for African American professionals, entrepreneurs and corporate executives. Every month, **BLACK ENTERPRISE** delivers timely, useful information on careers, small business and personal finance.

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## **QR CODES FOR DUMMIES**

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**John Wiley & Sons** Find out how to effectively create, use, and track QR codes QR (Quick Response) codes are popping up everywhere, and businesses are reaping the rewards. Get in on the action with the no-nonsense advice in this streamlined, portable guide. You'll find out how to get started, plan your strategy, and actually create the codes. Then you'll learn to link codes to mobile-friendly content, track your results, and develop ways to give your customers value that will keep them coming back. It's all presented in the straightforward style you've come to know and love, with a dash of humor thrown in. Businesses large and small are using QR codes to share product information, coupons and special offers, and to process payments from customers' smartphones This small guide is packed with the information you need to start using QR codes with your business Covers what QR codes are and how to get started, plan a QR code campaign, create the codes, and link them to mobile-friendly content Explains code management systems and how to

track your results, ways to deliver genuine value to your users, and how to plan for the future Includes ten cool campaign ideas QR Codes For Dummies, Portable Edition helps you take advantage of this hot trend with practical knowledge you can use right away.

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## **TELECOMMUNICATIONS AND DATA COMMUNICATIONS HANDBOOK**

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John Wiley & Sons For an accessible and comprehensive survey of telecommunications and data communications technologies and services, consult the Telecommunications and Data Communications Handbook, which includes information on origins, evolution and meaningful contemporary applications. Find discussions of technologies set in context, with details on fiber optics, cellular radio, digital carrier systems, TCP/IP, and the Internet. Explore topics like Voice over Internet Protocol (VoIP); 802.16 & WiMAX; Passive Optical Network (PON); 802.11g & Multiple Input Multiple Output (MIMO) in this easily accessible guide without the burden of technical jargon.

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## **MANAGEMENT INFORMATION SYSTEMS**

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### **MANAGING THE DIGITAL FIRM**

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Pearson Educación Management Information Systems provides comprehensive and integrative coverage of essential new technologies, information system applications, and their impact on business models and managerial decision-making in an exciting and interactive manner. The twelfth edition focuses on the major changes that have been made in information technology over the past two years, and includes new opening, closing, and Interactive Session cases.

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## **HANDBOOK OF MARKET RISK**

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John Wiley & Sons A ONE-STOP GUIDE FOR THE THEORIES, APPLICATIONS, AND STATISTICAL METHODOLOGIES OF MARKET RISK Understanding and investigating the impacts of market risk on the financial landscape is crucial in preventing crises. Written by a hedge fund specialist, the Handbook of Market Risk is the comprehensive guide to the subject of market risk. Featuring a format that is accessible and convenient, the handbook employs numerous examples to underscore the application of the material in a real-world setting. The book starts by introducing the various methods to measure market risk while continuing to emphasize stress testing, liquidity, and interest rate implications. Covering topics intrinsic to understanding and applying market risk, the handbook features: An introduction to financial markets The historical perspective from market events and diverse mathematics to the value-at-risk Return and volatility estimates Diversification, portfolio risk, and efficient frontier The Capital Asset Pricing Model and the Arbitrage Pricing Theory The use of a fundamental multi-factors model Financial derivatives instruments Fixed income and interest rate risk Liquidity risk Alternative investments Stress testing and back testing Banks and Basel II/III The Handbook of Market Risk is a must-have resource for financial engineers, quantitative analysts, regulators, risk managers in investment banks, and large-scale consultancy groups advising banks on internal systems. The handbook is also an excellent text for academics teaching postgraduate courses on financial methodology.

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## **COCOA PROGRAMMING FOR MAC OS X**

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Addison-Wesley Professional Provides step-by-step instructions for learning Cocoa, discussing such topics as Objective-C, controls, helper objects, archiving, Nib files and NSWindowController, and creating interface builder palettes.

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## **GO H\*CK YOURSELF**

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### **A SIMPLE INTRODUCTION TO CYBER ATTACKS AND DEFENSE**

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No Starch Press Learn firsthand just how easy a cyberattack can be. Go H\*ck Yourself is an eye-opening, hands-on introduction to the world of hacking, from an award-winning cybersecurity coach. As you perform common attacks against yourself, you'll be shocked by how easy they are to carry out—and realize just how vulnerable most people really are. You'll be guided through setting up a virtual hacking lab so you can safely try out attacks without putting yourself or others at risk. Then step-by-step instructions will walk you through executing every major type of attack, including physical access hacks, Google hacking and reconnaissance, social engineering and phishing, malware, password cracking, web hacking, and phone hacking. You'll even hack a virtual car! You'll experience each hack from the point of view of both the attacker and the target. Most importantly, every hack is grounded in real-life examples and paired with practical cyber defense tips, so you'll understand how to guard against the hacks you perform. You'll learn: • How to practice hacking within a safe, virtual environment • How to use popular hacking tools the way real hackers do, like Kali Linux, Metasploit, and John the Ripper • How to infect devices with malware, steal and crack passwords, phish for sensitive information, and more • How to use hacking skills for good, such as to access files on an old laptop when you can't remember the password • Valuable strategies for protecting yourself from cyber attacks You can't truly understand cyber threats or defend against them until you've experienced them firsthand. By hacking yourself before the bad guys do, you'll gain the knowledge you need to keep you and your loved ones safe.

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## **CISA CERTIFIED INFORMATION SYSTEMS AUDITOR STUDY GUIDE**

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John Wiley & Sons The ultimate CISA prep guide, with practice exams Sybex's CISA: Certified Information Systems Auditor Study Guide, Fourth Edition is the newest edition of industry-leading study guide for the Certified Information System Auditor exam, fully updated to align with the latest ISACA standards and changes in IS auditing. This new

edition provides complete guidance toward all content areas, tasks, and knowledge areas of the exam and is illustrated with real-world examples. All CISA terminology has been revised to reflect the most recent interpretations, including 73 definition and nomenclature changes. Each chapter summary highlights the most important topics on which you'll be tested, and review questions help you gauge your understanding of the material. You also get access to electronic flashcards, practice exams, and the Sybex test engine for comprehensively thorough preparation. For those who audit, control, monitor, and assess enterprise IT and business systems, the CISA certification signals knowledge, skills, experience, and credibility that delivers value to a business. This study guide gives you the advantage of detailed explanations from a real-world perspective, so you can go into the exam fully prepared. Discover how much you already know by beginning with an assessment test Understand all content, knowledge, and tasks covered by the CISA exam Get more in-depths explanation and demonstrations with an all-new training video Test your knowledge with the electronic test engine, flashcards, review questions, and more The CISA certification has been a globally accepted standard of achievement among information systems audit, control, and security professionals since 1978. If you're looking to acquire one of the top IS security credentials, CISA is the comprehensive study guide you need.

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## **WORLD INVESTMENT REPORT**

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## **SWITCHING TO VOIP**

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## **A SOLUTIONS MANUAL FOR NETWORK PROFESSIONALS**

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"O'Reilly Media, Inc." More and more businesses today have their receive phone service through Internet instead of local phone company lines. Many businesses are also using their internal local and wide-area network infrastructure to replace legacy enterprise telephone networks. This migration to a single network carrying voice and data is called convergence, and it's revolutionizing the world of telecommunications by slashing costs and empowering users. The technology of families driving this convergence is called VoIP, or Voice over IP. VoIP has advanced Internet-based telephony to a viable solution, piquing the interest of companies small and large. The primary reason for migrating to VoIP is cost, as it equalizes the costs of long distance calls, local calls, and e-mails to fractions of a penny per use. But the real enterprise turn-on is how VoIP empowers businesses to mold and customize telecom and datacom solutions using a single, cohesive networking platform. These business drivers are so compelling that legacy telephony is going the way of the dinosaur, yielding to Voice over IP as the dominant enterprise communications paradigm. Developed from real-world experience by a senior developer, O'Reilly's Switching to VoIP provides solutions for the most common VoIP migration challenges. So if you're a network professional who is migrating from a traditional telephony system to a modern, feature-rich network, this book is a must-have. You'll discover the strengths and weaknesses of circuit-switched and packet-switched networks, how VoIP systems impact network infrastructure, as well as solutions for common challenges involved with IP voice migrations. Among the challenges discussed and projects presented: building a softPBX configuring IP phones ensuring quality of service scalability standards-compliance topological considerations coordinating a complete system ?switchover? migrating applications like voicemail and directoryservices retro-interfacing to traditional telephony supporting mobile users security and survivability dealing with the challenges of NAT To help you grasp the core principles at work, Switching to VoIP uses a combination of strategy and hands-on "how-to" that introduce VoIP routers and media gateways, various makes of IP telephone equipment, legacy analog phones, IPTables and Linux firewalls, and the Asterisk open source PBX software by Digium. You'll learn how to build an IP-based or legacy-compatible phone system and voicemail system complete with e-mail integration while becoming familiar with VoIP protocols and devices. Switching to VoIP remains vendor-neutral and advocates standards, not brands. Some of the standards explored include: SIP H.323, SCCP, and IAX Voice codecs 802.3af Type of Service, IP precedence, DiffServ, and RSVP 802.1a/b/g WLAN If VoIP has your attention, like so many others, then Switching to VoIP will help you build your own system, install it, and begin making calls. It's the only thing left between you and a modern telecom network.

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## **MOBILE COMMUNICATIONS**

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Pearson Education India

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## **HISTORY OF NORDIC COMPUTING 2**

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## **SECOND IFIP WG 9.7 CONFERENCE, HINC 2, TURKU, FINLAND, AUGUST 21-23, 2007, REVISED SELECTED PAPERS**

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Springer Science & Business Media The First Conference on the History of Nordic Computing (HiNC1) was organized in Trondheim, in June 2003. The HiNC1 event focused on the early years of computing, that is the years from the 1940s through the 1960s, although it formally extended to year 1985. In the preface of the proceedings of HiNC1, Janis Bubenko, Jr. , John Impagliazzo, and Arne Sølberg describe well the peculiarities of early Nordic computing [1]. While developing hardware was a necessity for the first professionals, quite soon the computer became an industrial product. Computer scientists, among others, grew increasingly interested in programming and application software. Progress in these areas from the 1960s to the 1980s was experienced as astonishing. The developments during these decades were taken as the focus of HiNC2. During those decades computers arrived to every branch of large and medium-sized businesses and the users of the computer systems were no longer only computer specialists but also people with other main duties. Compared to the early years of computing before 1960, where the number of computer projects and applications was small, capturing a holistic view of the history between the 1960s and the 1980s is

considerably more difficult. The HiNC2 conference attempted to help in this endeavor.

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## **MAGENTO 2 THEME DESIGN**

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Packt Publishing Ltd Create stunning and responsive Magento 2 themes for your business About This Book Realize the full potential of theme design in Magento 2 Design attractive themes for your e-commerce store to make them stand out amongst the crowd Practical skills and examples ensure you can take what you've learnt to your own projects - limited only by your own creativity! Who This Book Is For This book is for web designers and developers with existing knowledge of CSS, HTML, and XML who wish to create themes for Magento 2. Existing Magento 1.x theme designers who now want to develop themes for Magento 2 will also find this book useful. What You Will Learn Implement a local development Magento environment Understand the workings of the Magento theme structure Edit an existing Magento theme to satisfy your business needs Create print strategies for the Magento 2.0 theme Generate specific blocks to improve the Magento 2.0 theme Explore specific Magento programming Methods to improve the Magento 2.0 theme Customize the Magento 2.0 admin panel to create a new Magento 2.0 admin theme Build a Twitter module for Magento 2.0 and integrate Magento 2.0 with social bookmarking In Detail Magento is the e-commerce software and platform trusted by the world's leading brands. Using Magento's powerful theming engine, you can control the look, content, and functionality, and easily launch a flexible e-commerce website. However, because of its powerful features, developing Magento themes is easier said than done. This book aims to leverage the enhancements to theme designing in Magento 2 to the fullest. It will show you how to gear up the performance of your e-commerce website. We begin by introducing Magento 2 and its features along with implementing a local development Magento environment. We then move on to discuss the concepts of the Magento theme structure such as templates, inheritance, customization, and override. Further on, we explore the Magento UI Library, which is a new feature available in Magento 2.0. We will create a new Magento 2.0 theme named MyCake Store using Magento Bootstrap from Maven E-commerce and also create print strategies for the Magento 2.0 theme. We will also create and customize a new theme proposal for the Magento admin panel. At the end, we will integrate Magento 2.0 to Twitter and integrate it with social bookmarking and finally deploy our new Magento 2.0 theme. Style and approach This is a step-by-step guide to customizing the look and feel of your online store by creating stunning and responsive themes from scratch. In addition to creating new themes, the book will also offer guidance on customizing existing themes.

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## **SAMSUNG GALAXY S20 FOR DUMMIES**

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John Wiley & Sons Get the most out of the powerful new Samsung Galaxy S20 With its superfast refresh rate for seamless browsing and spectacularly enhanced camera—among many other goodies—there's a lot to enjoy about your sleek new Samsung S20. Whether you're a Samsung newbie or an upgrading customer, Samsung Galaxy S20 for Dummies is the perfect guide to the latest generation. From the basics, like setup and security, to the fun, like the supercool Single Take mode, this book has you covered from the moment you take your new smartphone out of its shiny new box. Want to watch movies? Navigate your way around with GPS? Say hello to family and friends on social media? All the easy-to-follow tips and tricks that make it fast and fun are pages away! Configure and personalize your new phone Get going with the best features, apps, and games Shoot eye-popping photo and video with 30x zoom and nighttime mode Sync with your other devices Whatever you want to use it for gaming with friends, in-app conferencing or emailing for work, shooting home movies, sending witty Tweets—or even making phone calls—this friendly, no-nonsense how-to is the best guide to your galaxy. Enjoy!