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The RF in RFID - Daniel M. Dobkin 2012-11-01
This book explains how UHF tags and readers communicate wirelessly. It gives an understanding of what limits the read range of a tag, how to increase it (and why that might result in breaking the law), and the practical things that need to be addressed when designing and implementing RFID technology. Avoiding heavy math but giving breadth of coverage with the right amount of detail, it is an ideal introduction to radio communications for engineers who need insight into how tags and readers work. New to this edition: • Examples of near-metal antenna techniques • Discussion of the wakeup challenge for battery-assisted tags, with a BAT architecture example • Latest development of protocols: EPC Gen 1.2.0 • Update 18000-6 discussion with battery-assisted tags, sensor tags, Manchester tags and wakeup provisions Named a 2012 Notable Computer Book for Computer Systems Organization by Computing Reviews The only book to give an understanding of radio communications, the underlying technology for radio frequency identification (RFID) Praised for its readability and clarity, it balances breadth and depth of coverage New edition includes latest developments in chip technology, antennas and protocols
Smart Card Programming - Ugo Chirico 2014-05-21
With Smart Card Programming the reader will have the expert guidance he need to work with smart cards. The book offers a comprehensive guide, to the technological aspects related to smart cards, providing an high level overview of the technological panorama and giving an in-depth technical coverage about the related architectures, programming paradigms and APIs. The first part of the book introduces the smart card technologies, the general concepts and a few case studies. It is addressed also to non-technical reader who wishes an high level overview on smart card world. The second part of the book is a technical

guide to smart card specifications and programming paradigms. It dives into technical topics about smart card programming and applications development in C/C++, C#, Visual Basic and Java. Key features include: - Contact and Contactless Cards - ISO 7816 - NFC - JavaCard Framework - PC/SC - PKCS#11 - OpenCard Framework - Java - Smart Card I/O - GlobalPlatform - EMV

Proprietary Burglar Alarm Units and Systems, UL 1076 - Underwriters' Laboratories 1995-09-01

2017 International Conference on Wireless Technologies, Embedded and Intelligent Systems (WITS) - IEEE Staff 2017-04-19

WITS 2017 offers the opportunity for institutes, research centers, engineers, scientists and industrial companies, from many countries, to share their latest research results in the field of Wireless Technologies, embedded and intelligent Systems

RFID Design Principles - Harvey Lehpamer 2012-01-01

This revised edition of the Artech House bestseller, RFID Design Principles, serves as an up-to-date and comprehensive introduction to the subject. The second edition features numerous updates and brand new and expanded material on emerging topics such as the medical applications of RFID and new ethical challenges in the field. This practical book offers you a detailed understanding of RFID design essentials, key applications, and important management issues. The book explores the role of RFID technology in supply chain management, intelligent building design, transportation systems, military applications, and numerous other applications. It explains the design of RFID circuits, antennas, interfaces, data encoding schemes, and complete systems. Starting with the basics of RF and microwave propagation, you learn about major system components including tags and readers. This hands-on reference distills the latest RFID standards, and examines RFID at work in supply chain management, intelligent buildings, intelligent transportation systems, and tracking animals. RFID is controversial among privacy and consumer advocates, and this book looks at every angle concerning security, ethics, and protecting consumer data. From design detailsOC to applicationsOC to socio-cultural implications, this authoritative volume offers the knowledge you need to create an optimal RFID system and maximize its performance."

IEEE CCWC-2017 - Satyajit Chakrabarti 2017

Kubernetes: Up and Running - Kelsey Hightower 2017-09-07

Legend has it that Google deploys over two billion application containers a week. How’s that possible? Google revealed the secret through a project called Kubernetes, an open source cluster orchestrator (based on its internal Borg system) that radically simplifies the task of building, deploying, and maintaining scalable distributed systems in the cloud. This practical guide shows you how Kubernetes and container technology can help you achieve new levels of velocity, agility, reliability, and efficiency. Authors Kelsey Hightower, Brendan Burns, and Joe Beda—who’ve worked on Kubernetes at Google and other organizatons—explain how this system fits into the lifecycle of a distributed application. You will learn how to use tools and APIs to automate scalable distributed systems, whether it is for online services, machine-

learning applications, or a cluster of Raspberry Pi computers. Explore the distributed system challenges that Kubernetes addresses Dive into containerized application development, using containers such as Docker Create and run containers on Kubernetes, using the docker image format and container runtime Explore specialized objects essential for running applications in production Reliably roll out new software versions without downtime or errors Get examples of how to develop and deploy real-world applications in Kubernetes

RFID Essentials - Bill Glover 2007

Tag Protocols; Protocol Terms and Concepts; How Tags Store Data; GS1 SGTIN Encoding; Find the header; Find the partition; Concatenate the header, filter value, and partition; Append the Company Prefix, Item Reference, and Serial Number; Calculate the CRC and append the EPC to it; Singulation and Anti-Collision Procedures; Slotted Aloha; Adaptive Binary Tree; Slotted Terminal Adaptive Collection (STAC); EPC UHF Class I Gen2; Tag memory; Inventory commands; The Select command; Access commands; Tag states; Tag Features for Security and Privacy; Destroying and Disabling Tags.

Digital Cities - Toru Ishida 2003-06-26

On the way towards the Information Society, global networks such as the Internet, together with mobile computing, have made wide-area computing over virtual communities a reality. Digital city projects, with the goal of building platforms to support community networking, are going on worldwide. This is the first book devoted to digital cities. It is based on an international symposium held in Kyoto, Japan, in September 1999. The 34 revised full papers presented were carefully selected for inclusion in the book; they reflect the state of the art in this exciting new field of interdisciplinary research and development. The book is divided into parts on design and analysis, digital city experiments, community network experiments, applications, visualization technologies, mobile technologies, and social interaction and communityware.

Building APIs with Node.js - Caio Ribeiro Pereira 2016-12-10

Learn how to build scalable APIs using the Node.js platform and ES6 (EcmaScript 2015) with this quick, informative guide. Developing systems for the wide range of devices available in the modern world requires the construction of APIs designed to work only with data in a centralized manner, allowing client-side applications to be developed separately and have a unique interface for the final user. Node.js has proven itself to be an excellent platform for building REST APIs because of its single-thread architecture. It has a low learning curve and can be understood by anyone who has a basic understanding of the JavaScript language. Use Building APIs with Node.js today to understand how Node.js APIs work, and how you can build your own. What You Will Learn Build scalable APIs using the Node.js platform Use ES6, Express, Passport, ApiDoc, Mocha, Helmet and more Integrate an SQL database through Sequelize.js and build a single page application using Vanilla.js Who This Book Is For Ideal for developers who have a basic understanding of JavaScript and Node.js.

Spychips - Katherine Albrecht 2005-10-02

Big Brother gets up close and personal. Do you know about RFID (Radio Frquency IDentification)? Well, you should, because in just a few short years, this explosive new technology could tell marketers, criminals, and government snoops everything about you. Welcome to the world of spychips, where tiny computer

chips smaller than a grain of sand will trace everyday objects?and even people?keeping tabs on everything you own and everywhere you go. In this startling, eye-opening book, you'll learn how powerful corporations are planning a future where: Strangers will be able to scan the contents of your purse or briefcase from across a room. Stores will change prices as you approach-squeezing extra profits out of bargain shoppers and the poor. The contents of your refrigerator and medicine cabinet will be remotely monitored. Floors, doorways, ceiling tiles, and even picture frames will spy on you?leaving virtually no place to hide. microchip implants will track your every move?and even broadcast your conversations remotely or electroshock you if you step out of line. This is no conspiracy theory. Hundreds of millions of dollars have already been invested in what global corporations and the government are calling "the hottest new technology since the bar code." Unless we stop it now, RFID could strip away our last shreds of privacy and usher in a nightmare world of total surveillance?to keep us all on Big Brother's very short leash. What critics are saying about Spychips, the book: Spychips "make[s] a stunningly powerful argument against plans for RFID being mapped out by government agencies, retail and manufacturing companies." ?Evan Schuman, CIO Insight "The privacy movement needs a book. I nominate Spychips." ?Marc Rotenberg, EPIC "Brilliantly written; so scary and depressing I want to put it down, so full of fascinating vignettes and facts that I can't put it down." ?Author Claire Wolfe Spychips "makes a very persuasive case that some of America's biggest companies want to embed tracking technology into virtually everything we own, and then study our usage patterns 24 hours a day. It's a truly creepy book and well worth reading." ?Hiawatha Bray, Boston Globe "You REALLY want to read this book." ?Laissez Faire

RFID Handbook - Syed A. Ahson 2017-12-19

Radio Frequency Identification (RFID) tagging is now used by the department of defense and many of the world’s largest retailers including Wal-Mart. As RFID continues to infiltrate industries worldwide, organizations must harness a clear understanding of this technology in order to maximize its potential and protect against the potential risks it poses. The RFID Handbook provides an overview of RFID technology, its associated security and privacy risks, and recommended practices that will enable organizations to realize productivity improvements while also protecting sensitive information and the privacy of individuals. Expert contributors present a host of applications including RFID enabled automated receiving, triage with RFID for massive incidents, RFID and NFC in relation to mobile phones, and RFID technologies for communication robots and a privacy preserving video surveillance system. The unprecedented coverage also includes detailed descriptions of adaptive splitting protocols as well as tree-based and probabilistic anti-collision protocols. Drawing on its distinguished editors and world-renowned contributors, this one-of-a-kind handbook serves as the ultimate reference on RFID, from basic research concepts to future applications.

Networked RFID - George Roussos 2008-10-17

This book introduces the technologies and techniques of large-scale RFID-enabled mobile computing systems. The discussion is set in the context of specific system case studies where RFID has been the core enabling technology

in retail, metropolitan transportation, logistics and e-passport applications. RFID technology fundamentals are covered including operating principles, core system components and performance trade-offs involved in the selection of specific RFID platforms.

Compendium On Electromagnetic Analysis - From Electrostatics To Photonics: Fundamentals And Applications For Physicists And Engineers (In 5 Volumes) - 2020-06-15

The five-volume set may serve as a comprehensive reference on electromagnetic analysis and its applications at all frequencies, from static fields to optics and photonics. The material includes micro- and nanomagnetics, the new generation of electric machines, renewable energy, hybrid vehicles, low-noise motors; antennas and microwave devices, plasmonics, metamaterials, lasers, and more.Written at a level accessible to both graduate students and engineers, Electromagnetic Analysis is a comprehensive reference, covering methods and applications at all frequencies (from statics to optical). Each volume contains pedagogical/tutorial material of high archival value as well as chapters on state-of-the-art developments.

Persons Conducting a Business Or Undertaking - Michael Tooma 2013-01

"Due DIligence: Persons Conducting a Business or Undertaking is the sixth and final book in CCH's 'Due Diligence’ series by renowned author and OHS expert Michael Tooma." "The person conducting a business or undertaking (PCBU) is at the centre of the legislative regime imposed by the Work Health and Safety legislation. The scope of the duty of care for the PCBU is broad, with the extent of the duty expanding as prosecutions are brought and cases are decided." "Written in an easily comprehensible style, this book provides a practical framework for developing a safety management system to discharge the duty of care and the specific obligations imposed on the PCBU by the regulations. Similar to previous books in the series, each chapter begins with a number of key messages, providing an easy reference to the contents of each chapter." "This series is intended as a resource for busy managers and a guide to compliance with their due diligence duty."--Back cover.

Construction Materials Management - George Stukhart 1995-03-21

This work presents a comprehensive treatment of the entire construction materials management process, examining the many cost tradeoffs between materials functions. It discusses how to manage construction materials efficiently by implementing measures such as data management, Total Quality Management, process control, electronic data interchange, and bar coding. This book delineates the real cost of materials management.;It is intended for: cost, materials, construction, project, civil and industrial engineers; cost estimators and controllers; and upper-level undergraduate and graduate students in these disciplines.

Smart Cards - Timothy M. Jurgensen 2002

This book provides readers with an overview to the design of multiapplication smart card environments including the selection of a platform, the creation of applications and the logistics of initial deployment.

Beginning NFC - Tom Igoe 2014-01-14

Jump into the world of Near Field Communications (NFC), the fast-growing technology that lets devices in close proximity exchange data, using radio

signals. With lots of examples, sample code, exercises, and step-by-step projects, this hands-on guide shows you how to build NFC applications for Android, the Arduino microcontroller, and embedded Linux devices. You'll learn how to write apps using the NFC Data Exchange Format (NDEF) in PhoneGap, Arduino, and node.js that help devices read messages from passive NFC tags and exchange data with other NFC-enabled devices. If you know HTML and JavaScript, you're ready to start with NFC. Dig into NFC's architecture, and learn how it's related to RFID Write sample apps for Android with PhoneGap and its NFC plugin Dive into NDEF: examine existing tag-writer apps and build your own Listen for and filter NDEF messages, using PhoneGap event listeners Build a full Android app to control lights and music in your home Create a hotel registration app with Arduino, from check-in to door lock Write peer-to-peer NFC messages between two Android devices Explore embedded Linux applications, using examples on Raspberry Pi and BeagleBone

Smart Card - Scott B. Guthery 1998

Smart Card Developer's Kit is designed to provide the practical information you need to design and build applications that incorporate smart cards. Using a combination of detailed exposition, technical reference summaries, and extended examples, this book familiarizes you with the unique strengths and capabilities of this emerging computer technology. Increase your security from a one-factor security-a password-to a two-factor security-a smart card and its PIN. Use the smart card as a portable place to carry your personal preference information and your identity-establishing private signing key. In marketing applications, a smart card offers a much wider and more flexible set of customer benefits than a magnetic-strip card or a paper record card. A smart card can also carry secured information-such as medical records, licenses, subscriptions, and accreditations-that must be guarded against tampering.

Security of Ubiquitous Computing Systems - Gildas Avoine 2021-01-14

The chapters in this open access book arise out of the EU Cost Action project Cryptacus, the objective of which was to improve and adapt existent cryptanalysis methodologies and tools to the ubiquitous computing framework. The cryptanalysis implemented lies along four axes: cryptographic models, cryptanalysis of building blocks, hardware and software security engineering, and security assessment of real-world systems. The authors are top-class researchers in security and cryptography, and the contributions are of value to researchers and practitioners in these domains. This book is open access under a CC BY license.

Deploying RFID - Cristina Turcu 2011-08-17

Radio frequency identification (RFID) is a technology that is rapidly gaining popularity due to its several benefits in a wide area of applications like inventory tracking, supply chain management, automated manufacturing, healthcare, etc. The benefits of implementing RFID technologies can be seen in terms of efficiency (increased speed in production, reduced shrinkage, lower error rates, improved asset tracking etc.) or effectiveness (services that companies provide to the customers). Leading to considerable operational and strategic benefits, RFID technology continues to bring new levels of intelligence and information, strengthening the experience of all participants in this research domain, and serving as a valuable authentication technology.

We hope this book will be useful for engineers, researchers and industry personnel, and provide them with some new ideas to address current and future issues they might be facing.

Security Standardisation Research - Cas Cremers 2018-11-21

This book constitutes the refereed proceedings of the 4th International Conference on Security Standardisation Research, SSR 2018, held in Darmstadt, Germany, in November 2018.The papers cover a range of topics in the field of security standardisation research, including cryptographic evaluation, standards development, analysis with formal methods, potential future areas of standardisation, and improving existing standards.

Smart Cards, Tokens, Security and Applications - Keith Mayes 2017-05-18

This book provides a broad overview of the many card systems and solutions that are in practical use today. This new edition adds content on RFIDs, embedded security, attacks and countermeasures, security evaluation, javacards, banking or payment cards, identity cards and passports, mobile systems security, and security management. A step-by-step approach educates the reader in card types, production, operating systems, commercial applications, new technologies, security design, attacks, application development, deployment and lifecycle management. By the end of the book the reader should be able to play an educated role in a smart card related project, even to programming a card application. This book is designed as a textbook for graduate level students in computer science. It is also as an invaluable post-graduate level reference for professionals and researchers. This volume offers insight into benefits and pitfalls of diverse industry, government, financial and logistics aspects while providing a sufficient level of technical detail to support technologists, information security specialists, engineers and researchers.

Guide to Bluetooth Security - Karen Scarfone 2009-05-01

This document provides info. to organizations on the security capabilities of Bluetooth and provide recommendations to organizations employing Bluetooth technologies on securing them effectively. It discusses Bluetooth technologies and security capabilities in technical detail. This document assumes that the readers have at least some operating system, wireless networking, and security knowledge. Because of the constantly changing nature of the wireless security industry and the threats and vulnerabilities to the technologies, readers are strongly encouraged to take advantage of other resources (including those listed in this document) for more current and detailed information. Illustrations.

The Hacker's Hardware Toolkit - Yago Hansen 2019

Smart Card Handbook - Wolfgang Rankl 2004-04-02

Building on previous editions, this third edition of the Smart Card Handbook offers a completely updated overview of the state of the art in smart card technology. Everything you need to know about smart cards and their applications is covered! Fully revised, this handbook describes the advantages and disadvantages of smart cards when compared with other systems, such as optical cards and magnetic stripe cards and explains the basic technologies to the reader. This book also considers the actual status of appropriate European and international standards. Features include: New sections on: smart card

applications (PKCS #15, USIM, Tachosmart). smart card terminals: M.U.S.C.L.E., OCF, MKT, PC/SC. contactless card data transmission with smart cards. Revised and updated chapters on: smart cards in the telecommunications industry (GSM, UMTS, (U)SIM application toolkit, decoding of the files of a GSM card). smart card security (new attacks, new protection methods against attacks). A detailed description of the physical and technical properties and the fundamental principles of information processing techniques. Explanations of the architecture of smart card operating systems, data transfer to and from the smart card, command set and implementation of the security mechanisms and the function of the smart card terminals. Current applications of the technology on mobile telephones, telephone cards, the electronic purse and credit cards. Discussions on future developments of smart cards: USB, MMU on microcontroller, system on card, flash memory and their usage. Practical guidance on the future applications of smart cards, including health insurance cards, e-ticketing, wireless security, digital signatures and advanced electronic payment methods. “The book is filled with information that students, enthusiasts, managers, experts, developers, researchers and programmers will find useful. The book is well structured and provides a good account of smart card state-of-the-art technology… There is a lot of useful information in this book and as a practicing engineer I found it fascinating, and extremely useful.” Review of second edition in Measurement and Control. 'The standard has got a lot higher, if you work with smart cards then buy it! Highly recommended.’ Review of second edition in Journal of the Association of C and C++ Programmers. Visit the Smart Card Handbook online at www.wiley.co.uk/commstech/

Cyber-Physical, IoT, and Autonomous Systems in Industry 4.0 - Vikram Bali 2021-12-24

This book addresses topics related to the Internet of Things (IoT), machine learning, cyber-physical systems, cloud computing, and autonomous vehicles in Industry 4.0. It investigates challenges across multiple sectors and industries and considers Industry 4.0 for operations research and supply chain management. Cyber-Physical, IoT, and Autonomous Systems in Industry 4.0 encourages readers to develop novel theories and enrich their knowledge to foster sustainability. It examines the recent research trends and the future of cyber-physical systems, IoT, and autonomous systems as they relate to Industry 4.0. This book is intended for undergraduates, postgraduates, academics, researchers, and industry individuals to explore new ideas, techniques, and tools related to Industry 4.0.

Python Scapy Dot11 - Yago Hansen 2018-07-03

This book offers a real solution for all those who love cybersecurity and hacking on Wi-Fi / 802.11 technologies, those who want to learn how to easily program their own tools for pentesting or auditing wireless networks. During the recent years Python has reached a prominent position as one of the bests programming languages for the pentesting, thanks to its simplicity and its wide capabilities. The large number of modules, libraries and examples publicly available permit to easily code any kind of application. Scapy is the most complete network module for Python, and allows analyzing, dissecting, forging and injecting any frame over any existing network protocol. The scarcity of documentation on Scapy Dot11 makes this book a unique tool for all

professionals, hackers, pentesters, security analysts and cyberforenses who wish to create their own arsenal of Wi-Fi penetration tools. The format of this book offers a first section which covers a theoretical introduction about Wi-Fi networks and their operating structure. The second part, eminently practical, presents a selection of more than 40 selected Python programmed scripts that use the Scapy library to perform Hacking and Pentesting Wi-Fi operations.