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A Harvard-trained psychiatrist and mom of 3 gives parents and educators the tech habits children need to achieve their full potential--and a 6-step plan to put them into action. You may have picked up on some warning signs: The more your 9-year-old son plays video games, the more distracted and irritable he becomes. Or maybe comparing her life to others on social media is leaving your teenaged daughter feeling down. Then there are the questions that are always looming: Should I limit screen time? Should I give my 11-year-old an iPhone? The Tech Solution is a to-the-point resource for parents and educators who want the best approach for raising kids in our digital world. It outlines all you need to know about the short-term and potential long-term consequences of tech use. Dr. Kang simplifies cutting edge neuroscience to reveal a new understanding around how we metabolize experiences with technology that will lay the foundation for lasting success. On top of that, she offers practical advice for tackling specific concerns in the classroom or at home, whether it's possible tech addiction, anxiety, cyberbullying, or loneliness. With her 6-week 6-step plan for rebalancing your family's tech diet, Dr. Kang will help your child build healthy habits and make smart choices that will maximize the benefits of tech and minimize its risks. Use The Tech Solution to help your child avoid the pitfalls of today's digital world and to offer them guidance that will boost their brains and bodies, create meaningful connections, explore creative pursuits, and foster a sense of contribution and empowerment for many years to come. This is a student supplement associated with: Electronic Devices (Conventional Current Version), 9/e Thomas L. Floyd ISBN: 0132549867 Electronic Devices (Electron Flow Version), 9/e Thomas L. Floyd ISBN: 0132549859 Micro- and Nanoelectronics: Emerging Device Challenges and Solutions presents a comprehensive overview of the current state of the art of micro- and nanoelectronics, covering the field from fundamental science and material properties to novel ways of making nanodevices. Containing contributions from experts in both industry and academia, this cutting-edge text: Discusses emerging silicon devices for CMOS technologies, fully depleted device architectures, characteristics, and scaling Explains the specifics of silicon compound devices (SiGe, SiC) and their unique properties Explores various options for post-CMOS nanoelectronics, such as spintronic devices and nanoionic switches Describes the latest developments in carbon nanotubes, iii-v devices structures, and more Micro- and Nanoelectronics: Emerging Device Challenges and Solutions provides an excellent representation of a complex engineering field, examining emerging materials and device architecture alternatives with the potential to shape the future of nanotechnology. This book gathers and analyzes the latest attacks, solutions, and trends in mobile networks.

Its broad scope covers attacks and solutions related to mobile networks, mobile phone security, and wireless security. It examines the previous and emerging attacks and solutions in the mobile networking worlds, as well as other pertinent security issues. The many attack samples present the severity of this problem, while the delivered methodologies and countermeasures show how to build a truly secure mobile computing environment. Discover how to plan, design, develop, and deploy iPad apps for the enterprise Having taken the enterprise by storm, iPads are now in the hands of workers in virtually every level of companies in almost every industry. But using iPad apps in the enterprise is more complex than simply clicking an icon from the App Store. It presents unique challenges around software development, system integration, information security, application deployment, and device management. That's where this book comes in. iPhone Life Enterprise Editor and veteran mobile consultant Nathan Clevenger presents a guide for developing a mobile strategy to properly take advantage of this transformative technology. You'll learn about the high-level software architectural options, the importance of design and user experience, application development tools and techniques, and best practices for deploying applications and managing iPads in the enterprise. Explores the requirements of preparation for developing, deploying, and supporting iPad apps for the enterprise Presents strategies for both business and IT to take advantage of the iPad and achieve dramatic ROI Includes case studies of thought-leading organizations that have empowered their workforce with iPads Features companion iPad applications developed by the author, including worksheets, sample apps, training instructor guides iPad in the Enterprise gets you started immediately planning, designing, developing, deploying, and managing iPad apps specifically for the enterprise. Contemporary Electronics: Fundamentals, Devices, Circuits and Systems offers a modern approach to fundamental courses for the electronics and electrical fields. It is designed for the first two or three electronic courses in the typical associate degree program in electronic technology. It includes both DC and AC circuits as well as semiconductor fundamentals and basic linear circuits. It addresses the numerous changes that have taken place over the past years in electronics technology, industry, jobs, and the knowledge and skills required by technicians and other technical workers. It can be used in separate DC and AC courses but also in a combined DC/AC course that some schools have adopted in the past years. Contemporary Electronics offers the student the benefit of being able to use a single text in two or three courses minimizing expenses. This book presents effective ways to partition mobile devices such that the enterprise system access and its information are completely separated from the personal information. For those using mobile devices for personal and business purposes, the ability to keep the data secure and separate is critical. The applications for security in smart platforms range from personal email accounts to global enterprise systems. Several approaches for mobile virtualization are described, all creating secure and secluded environments for enterprise information. The authors present a reference architecture that allows for integration with existing enterprise mobile device management systems and provides a lightweight solution for containerizing mobile applications. This solution is then benchmarked with several of the existing mobile virtualization solutions across a range of mobile devices. Virtualization Techniques for Mobile Systems is an excellent resource for researchers and professionals working in mobile systems. Advanced-level students studying computer science and electrical engineering will also find the content helpful. • New York Times bestseller • The 100 most substantive solutions to reverse global warming, based on meticulous research by leading scientists and policymakers around the world “ At this point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a

sense of grounded hope.” —Per Espen Stoknes, Author, *What We Think About When We Try Not To Think About Global Warming* “ There ’ s been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single, comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom.” —David Roberts, *Vox*

“ This is the ideal environmental sciences textbook—only it is too interesting and inspiring to be called a textbook.” —Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA

In the face of widespread fear and apathy, an international coalition of researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth ’ s warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an opportunity to create a just and livable world. This text provides optional computer analysis exercises in selected examples, troubleshooting sections, & applications assignments. It uses frank explanations & limits maths to only what's needed for understanding electric circuits fundamentals.

Chemical Solution Synthesis for Materials Design and Thin Film Device Applications presents current research on wet chemical techniques for thin-film based devices. Sections cover the quality of thin films, types of common films used in devices, various thermodynamic properties, thin film patterning, device configuration and applications. As a whole, these topics create a roadmap for developing new materials and incorporating the results in device fabrication. This book is suitable for graduate, undergraduate, doctoral students, and researchers looking for quick guidance on material synthesis and device fabrication through wet chemical routes. Provides the different wet chemical routes for materials synthesis, along with the most relevant thin film structured materials for device applications

Discusses patterning and solution processing of inorganic thin films, along with solvent-based processing techniques Includes an overview of key processes and methods in thin film synthesis, processing and device fabrication, such as nucleation, lithography and solution processing Provides first-hand insights into advanced fabrication techniques for solution processable organic electronics materials and devices

The field of printable organic electronics has emerged as a technology which plays a major role in materials science research and development. Printable organic electronics soon compete with, and for specific applications can even outpace, conventional semiconductor devices in terms of performance, cost, and versatility. Printing techniques allow for large-scale fabrication of organic electronic components and functional devices for use as wearable electronics, health-care sensors, Internet of Things, monitoring of environment pollution and many others, yet-to-be-conceived applications. The first part of *Solution-Processable Components for Organic Electronic Devices* covers the synthesis of: soluble conjugated polymers; solution-processable nanoparticles of inorganic semiconductors; high-k nanoparticles by means of controlled radical polymerization; advanced blending techniques yielding novel materials with extraordinary properties. The book also discusses photogeneration of charge carriers in nanostructured bulk heterojunctions and charge carrier transport in multicomponent materials such as composites and nanocomposites as well as photovoltaic devices modelling. The second part of the book is devoted to organic electronic devices, such as field effect transistors, light emitting diodes, photovoltaics, photodiodes and

electronic memory devices which can be produced by solution-based methods, including printing and roll-to-roll manufacturing. The book provides in-depth knowledge for experienced researchers and for those entering the field. It comprises 12 chapters focused on: ? novel organic electronics components synthesis and solution-based processing techniques ? advanced analysis of mechanisms governing charge carrier generation and transport in organic semiconductors and devices ? fabrication techniques and characterization methods of organic electronic devices Providing coverage of the state of the art of organic electronics, *Solution-Processable Components for Organic Electronic Devices* is an excellent book for materials scientists, applied physicists, engineering scientists, and those working in the electronics industry. An *Introduction to Semiconductor Devices* by Donald Neamen provides an understanding of the characteristics, operations and limitations of semiconductor devices. In order to provide this understanding, the book brings together the fundamental physics of the semiconductor material and the semiconductor device physics. This new text provides an accessible and modern presentation of material. Quantum mechanic material is minimal, and the most advanced material is designated with an icon. This modern approach means that coverage of the MOS transistor precedes the material on the bipolar transistor, which reflects the dominance of MOS technology in today's world. Excellent pedagogy is present throughout the book in the form of interesting chapters openers, worked examples, a variety of exercises, key terms, and end of chapter problems. *Polymers for Light-Emitting Devices and Displays* provides an in-depth overview of fabrication methods and unique properties of polymeric semiconductors, and their potential applications for LEDs including organic electronics, displays, and optoelectronics. Some of the chapter subjects include:

- The newest polymeric materials and processes beyond the classical structure of PLED
- Conjugated polymers and their application in the light-emitting diodes (OLEDs & PLEDs) as optoelectronic devices.
- The novel work carried out on electrospun nanofibers used for LEDs.
- The roles of diversified architectures, layers, components, and their structural modifications in determining efficiencies and parameters of PLEDs as high-performance devices.
- Polymer liquid crystal devices (PLCs), their synthesis, and applications in various liquid crystal devices (LCs) and displays.
- Reviews the state-of-art of materials and technologies to manufacture hybrid white light-emitting diodes based on inorganic light sources and organic wavelength converters.

The term IoT, which was first proposed by Kevin Ashton, a British technologist, in 1999 has the potential to impact everything from new product opportunities to shop floor optimization to factory worker efficiency gains, that will power top-line and bottom-line gains. As IoT technology is being put to diversified use, the current technology needs to be improved to enhance privacy and built secure devices by adopting a security-focused approach, reducing the amount of data collected, increasing transparency and providing consumers with a choice to opt out. Therefore, the current volume has been compiled, in an effort to draw the various issues in IoT, challenges faced and existing solutions so far. Key Points:

- Provides an overview of basic concepts and technologies of IoT with communication technologies ranging from 4G to 5G and its architecture.
- Discusses recent security and privacy studies and social behavior of human beings over IoT.
- Covers the issues related to sensors, business model, principles, paradigms, green IoT and solutions to handle relevant challenges.
- Presents the readers with practical ideas of using IoT, how it deals with human dynamics, the ecosystem, the social objects and their relation.
- Deals with the challenges involved in surpassing diversified architecture, protocol, communications, integrity and security. Provides first-hand insights into advanced fabrication techniques for solution processable organic electronics materials and devices

The field of printable organic electronics has emerged as a technology which plays a major role in materials science research and development. Printable organic electronics soon compete with, and for specific applications can even outpace, conventional

semiconductor devices in terms of performance, cost, and versatility. Printing techniques allow for large-scale fabrication of organic electronic components and functional devices for use as wearable electronics, health-care sensors, Internet of Things, monitoring of environment pollution and many others, yet-to-be-conceived applications. The first part of Solution-Processable Components for Organic Electronic Devices covers the synthesis of: soluble conjugated polymers; solution-processable nanoparticles of inorganic semiconductors; high-k nanoparticles by means of controlled radical polymerization; advanced blending techniques yielding novel materials with extraordinary properties. The book also discusses photogeneration of charge carriers in nanostructured bulk heterojunctions and charge carrier transport in multicomponent materials such as composites and nanocomposites as well as photovoltaic devices modelling. The second part of the book is devoted to organic electronic devices, such as field effect transistors, light emitting diodes, photovoltaics, photodiodes and electronic memory devices which can be produced by solution-based methods, including printing and roll-to-roll manufacturing. The book provides in-depth knowledge for experienced researchers and for those entering the field. It comprises 12 chapters focused on: ? novel organic electronics components synthesis and solution-based processing techniques ? advanced analysis of mechanisms governing charge carrier generation and transport in organic semiconductors and devices ? fabrication techniques and characterization methods of organic electronic devices Providing coverage of the state of the art of organic electronics, Solution-Processable Components for Organic Electronic Devices is an excellent book for materials scientists, applied physicists, engineering scientists, and those working in the electronics industry. Provides first-hand insights into advanced fabrication techniques for solution processable organic electronics materials and devices The field of printable organic electronics has emerged as a technology which plays a major role in materials science research and development. Printable organic electronics soon compete with, and for specific applications can even outpace, conventional semiconductor devices in terms of performance, cost, and versatility. Printing techniques allow for large-scale fabrication of organic electronic components and functional devices for use as wearable electronics, health-care sensors, Internet of Things, monitoring of environment pollution and many others, yet-to-be-conceived applications. The first part of Solution-Processable Components for Organic Electronic Devices covers the synthesis of: soluble conjugated polymers; solution-processable nanoparticles of inorganic semiconductors; high-k nanoparticles by means of controlled radical polymerization; advanced blending techniques yielding novel materials with extraordinary properties. The book also discusses photogeneration of charge carriers in nanostructured bulk heterojunctions and charge carrier transport in multicomponent materials such as composites and nanocomposites as well as photovoltaic devices modelling. The second part of the book is devoted to organic electronic devices, such as field effect transistors, light emitting diodes, photovoltaics, photodiodes and electronic memory devices which can be produced by solution-based methods, including printing and roll-to-roll manufacturing. The book provides in-depth knowledge for experienced researchers and for those entering the field. It comprises 12 chapters focused on: ? novel organic electronics components synthesis and solution-based processing techniques ? advanced analysis of mechanisms governing charge carrier generation and transport in organic semiconductors and devices ? fabrication techniques and characterization methods of organic electronic devices Providing coverage of the state of the art of organic electronics, Solution-Processable Components for Organic Electronic Devices is an excellent book for materials scientists, applied physicists, engineering scientists, and those working in the electronics industry. Principles of Electrical Engineering Materials and Devices has been developed to bridge the gap between traditional electronic circuits texts and semiconductor texts Android continues to be one of the leading mobile OS and development platforms

driving today's mobile innovations and the apps ecosystem. Android appears complex, but offers a variety of organized development kits to those coming into Android with differing programming language skill sets. *Android Recipes: A Problem-Solution Approach, Third Edition* offers more than 100 down-to-earth code recipes, and guides you step-by-step through a wide range of useful topics using complete and real-world working code examples. It's updated to include the KitKat Android 4.4 SDK as well as earlier releases. Instead of abstract descriptions of complex concepts, in *Android Recipes*, you'll find live code examples. When you start a new project you can consider copying and pasting the code and configuration files from this book and then modifying them for your own customization needs. Crammed with insightful instruction and helpful examples, this third edition of *Android Recipes* is your guide to writing apps for one of today's hottest mobile platforms. It offers pragmatic advice that will help you get the job done quickly and well. This can save you a great deal of work over creating a project from scratch! What you'll learn

- Use external libraries to save time and effort
- Boost app performance by using the Android NDK and Renderscript
- Design apps for performance, responsiveness, and seamlessness
- Send data between devices and other external hardware
- Persist application data and share it between applications
- Capture and play back various device media items
- Communicate with web services
- Get the most out of your user interface
- Develop a unit conversion app in the context of the command-line/Android SDK and Eclipse/Android SDK environments

Who this book is for
This book is a handy reference for all Android app developers.

Table of Contents

- Getting Started with Android
- User Interaction
- Graphics and Drawing
- Communications and Networking
- Interacting with Device Hardware and Media
- Persisting Data
- Interacting with the System
- Working with Android NDK and Renderscript

Provides a realistic and practical treatment of modern semiconductor devices. In this book, an understanding of the physical processes responsible for the electronic properties of semiconductor materials and devices is emphasized. It helps the reader appreciate the underlying physics behind the equations derived and their range of applicability. The increasing demand for electronic devices for private and industrial purposes lead designers and researchers to explore new electronic devices and circuits that can perform several tasks efficiently with low IC area and low power consumption. In addition, the increasing demand for portable devices intensifies the call from industry to design sensor elements, an efficient storage cell, and large capacity memory elements. Several industry-related issues have also forced a redesign of basic electronic components for certain specific applications. The researchers, designers, and students working in the area of electronic devices, circuits, and materials sometimes need standard examples with certain specifications. This breakthrough work presents this knowledge of standard electronic device and circuit design analysis, including advanced technologies and materials. This outstanding new volume presents the basic concepts and fundamentals behind devices, circuits, and systems. It is a valuable reference for the veteran engineer and a learning tool for the student, the practicing engineer, or an engineer from another field crossing over into electrical engineering. It is a must-have for any library.

Over-70 million cell phone users in the world aren't just faster and more powerful than ever they're also better at all of the things you use an iPad tablets for. This easy-to-use book will also get you up to speed on all iOS 13 features, improved performance features and also this book information is simple enough for kids, adolescents, and adult even if they are dummies, seniors and experts in the computer and technology world... The easy-to-follow steps in this book will help you manage, personalize, and communicate using your new [iPad] Tablets. It helps you accomplish everything from web browsing to watching videos, fixing slow iPad issues, watching and streaming live TV for FREE, importing and exporting contacts, files, unlocking iPad, fixing iPad problems and lot more. You'll get up to speed on features no one talks about. Factor mobile devices into the IT equation and learn to work

securely in this smart new world. Learn how to lock down those mobile devices so that doing business on the go doesn't do you in. **Micro- and Nanoelectronics: Emerging Device Challenges and Solutions** presents a comprehensive overview of the current state of the art of micro- and nanoelectronics, covering the field from fundamental science and material properties to novel ways of making nanodevices. Containing contributions from experts in both industry and academia, this cutting-edge text: Discusses emerging silicon devices for CMOS technologies, fully depleted device architectures, characteristics, and scaling Explains the specifics of silicon compound devices (SiGe, SiC) and their unique properties Explores various options for post-CMOS nanoelectronics, such as spintronic devices and nanoionic switches Describes the latest developments in carbon nanotubes, iii-v devices structures, and more **Micro- and Nanoelectronics: Emerging Device Challenges and Solutions** provides an excellent representation of a complex engineering field, examining emerging materials and device architecture alternatives with the potential to shape the future of nanotechnology. Changes and additions to the new edition of this classic textbook include a new chapter on symmetries, new problems and examples, improved explanations, more numerical problems to be worked on a computer, new applications to solid state physics, and consolidated treatment of time-dependent potentials. **Principles of Electronic Materials and Devices, Third Edition**, is a greatly enhanced version of the highly successful text **Principles of Electronic Materials and Devices, Second Edition**. It is designed for a first course on electronic materials given in Materials Science and Engineering, Electrical Engineering, and Physics and Engineering Physics Departments at the undergraduate level. The third edition has numerous revisions that include more beautiful illustrations and photographs, additional sections, more solved problems, worked examples, and end-of-chapter problems with direct engineering applications. The revisions have improved the rigor without sacrificing the original semiquantitative approach that both the students and instructors liked and valued. Some of the new end-of-chapter problems have been especially selected to satisfy various professional engineering design requirements for accreditation across international borders. Advanced topics have been collected under **Additional Topics**, which are not necessary in a short introductory treatment. The increasing demand for electronic devices for private and industrial purposes lead designers and researchers to explore new electronic devices and circuits that can perform several tasks efficiently with low IC area and low power consumption. In addition, the increasing demand for portable devices intensifies the call from industry to design sensor elements, an efficient storage cell, and large capacity memory elements. Several industry-related issues have also forced a redesign of basic electronic components for certain specific applications. The researchers, designers, and students working in the area of electronic devices, circuits, and materials sometimes need standard examples with certain specifications. This breakthrough work presents this knowledge of standard electronic device and circuit design analysis, including advanced technologies and materials. This outstanding new volume presents the basic concepts and fundamentals behind devices, circuits, and systems. It is a valuable reference for the veteran engineer and a learning tool for the student, the practicing engineer, or an engineer from another field crossing over into electrical engineering. It is a must-have for any library. This text aims to provide the fundamentals necessary to understand semiconductor device characteristics, operations and limitations. Quantum mechanics and quantum theory are explored, and this background helps give students a deeper understanding of the essentials of physics and semiconductors. How difficult is it to qualify what device management solutions ROI is? Who do we want your customers to become? Who pays the cost? How do you plan for the cost of succession? What causes extra work or rework? This breakthrough **Device Management Solutions** self-assessment will make you the accepted **Device Management Solutions** domain leader by revealing just what you need to know to be fluent and ready for any **Device**

Management Solutions challenge. How do I reduce the effort in the Device Management Solutions work to be done to get problems solved? How can I ensure that plans of action include every Device Management Solutions task and that every Device Management Solutions outcome is in place? How will I save time investigating strategic and tactical options and ensuring Device Management Solutions costs are low? How can I deliver tailored Device Management Solutions advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Device Management Solutions essentials are covered, from every angle: the Device Management Solutions self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Device Management Solutions outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Device Management Solutions practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Device Management Solutions are maximized with professional results. Your purchase includes access details to the Device Management Solutions self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Device Management Solutions Checklists - Project management checklists and templates to assist with implementation **INCLUDES LIFETIME SELF ASSESSMENT UPDATES** Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips. Android Recipes, Fourth Edition offers more than 100 down-to-earth code recipes, and guides you step-by-step through a wide range of useful topics using complete and real-world working code examples. This book is updated to include the Android 5.0 SDK, as well as earlier releases. Instead of abstract descriptions of complex concepts, in Android Recipes, you'll find live code examples. When you start a new project you can consider copying and pasting the code and configuration files from this book and then modifying them for your own customization needs. Crammed with insightful instruction and helpful examples, this fourth edition of Android Recipes is your guide to writing apps for one of today ' s hottest mobile platforms. It offers pragmatic advice that will help you get the job done quickly and well. This can save you a great deal of work over creating a project from scratch! Android continues to be one of the leading mobile OS and development platforms driving today's mobile innovations and the apps ecosystem. Android appears complex, but offers a variety of organized development kits to those coming into Android with differing programming language skill sets. Devices and Circuit Fundamentals is: • Chapter Outline • Learning Objectives • Key Terms • Figure List • Chapter Summary • Formulas • Answers to Examples / Self-Exams • Glossary of Terms (defined) This Solution Manual, a companion volume of the book, Fundamentals of Solid-State Electronics, provides the solutions to selected problems listed in the book. Most of the solutions are for the selected problems that had been assigned to the engineering undergraduate students who were taking an introductory device core course using this book. This Solution Manual also contains an extensive appendix which illustrates the application of the fundamentals to solutions of state-of-the-art transistor reliability problems which have been taught to advanced undergraduate and graduate students. Devices and Circuit Fundamentals is: Chapter Outline Learning

Objectives Key Terms Figure List Chapter Summary Formulas Answers to Examples / Self-Exams Glossary of Terms (defined) Integrate an end-to-end logistic chain using IBM Blockchain and IoT platforms Key Features Explore practical implementation of ledger technology in the IoT architecture Study security best practices for your smart devices Understand Blockchain implementation for end-to-end IoT solutions

Book Description
Blockchain has been the hot topic of late thanks to cryptocurrencies. To make matters more interesting, the financial market is looking for ways to reduce operational costs and generate new business models, and this is where blockchain solutions come into the picture. In addition to this, with Internet of Things (IoT) trending and Arduino, Raspberry Pi, and other devices flooding the market, you can now create cheap devices even at home. Hands-On IoT Solutions with Blockchain starts with an overview of IoT concepts in the current business scenario. It then helps you develop your own device on the IBM Watson IoT platform and create your first IoT solution using Watson and Intel Edison. Once you are familiar with IoT, you will learn about Blockchain technology and its use cases. You will also work with the Hyperledger framework and develop your own Blockchain network. As you progress through the chapters, you'll work with problem statements and learn how to design your solution architecture so that you can create your own integrated Blockchain and IoT solution. The next set of chapters will explain how to implement end-to-end Blockchain solutions with IoT using the IBM Cloud platform. By the end of this book, you will have mastered the convergence of IoT and Blockchain technology and exploited the best practices and drivers to develop a bulletproof integrated solution. What you will learn

Understand the key roles of IoT in the current market
Study the different aspects of IBM Watson IoT platform
Create devices, gateways, and applications connected to the platform
Explore the fundamentals of Blockchain
Define good use cases for Blockchain
Discover the Hyperledger Fabric and Composer frameworks
Develop an IBM Watson IoT application using an Intel Edison
Integrate IoT with the Blockchain platform

Who this book is for
Hands-On IoT Solutions with Blockchain is for you if you are an Internet of Things (IoT) analyst, architect, engineer, or any stakeholder responsible for security mechanisms on an IoT infrastructure. This book is also for IT professionals who want to start developing solutions using Blockchain and IoT on the IBM Cloud platform. Basic understanding of IoT will assist you in understanding key concepts covered in the book.

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