

Wifi Solutions For Home

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The Report: Kuwait 2010 Elsevier

Focusing on the challenges, directions, and future predictions with the role of 5G in smart healthcare monitoring, this book offers the fundamental concepts and analyses on the methods to apply Internet of Things (IoT) in monitoring devices for diagnosing and transferring data. It also discusses self-managing to help providers improve their patients' healthcare experience. Smart Healthcare Monitoring Using IoT with 5G: Challenges, Directions, and Future Predictions illustrates user-focused wearable devices such as Fitbit health monitors and smartwatches by which consumers can self-manage and self-monitor their own health. The book covers new points of security and privacy concerns, with the expectation of IoT devices gaining more popularity within the next ten years. Case studies depicting applications and best practices as well as future predictions of smart healthcare monitoring by way of a 5G network are also included. Interested readers of this book include anyone working or involved in research in the field of smart healthcare, such as healthcare specialists, computer science engineers, electronics engineers, and pharmaceutical practitioners.

Internet of Things. IoT through a Multi-disciplinary Perspective Apress

The Internet of Things (IoT) is a widely distributed and networked system of interrelated and interacting computing devices and objects. Because of IoT's broad scope, it presents unique security problems, ranging from unsecure devices to users vulnerable to hackers. Presenting cutting-edge research to meet these challenges, Internet of Things Vulnerabilities and Recovery Strategies presents models of attack on IoT systems and solutions to prevent such attacks. Examining the requirements to secure IoT systems, the book offers recovery strategies and addresses security concerns related to: Data Routing Data Integrity Device Supervision IoT Integration Information Storage IoT Performance The book takes a holistic approach that encompasses visibility, segmentation, and protection. In addition to visual approaches and policy-driven measures, the book looks at developing secure and fault-tolerant IoT devices. It examines how to locate faults and presents mitigation strategies, as well as security models to prevent and thwart hacking. The book also examines security issues related to IoT systems and device maintenance.

State of Wireless Communications John Wiley & Sons

Mobile communications users are demanding increased reliability, functionality, and accessibility; they want "always on" access to voice, e-mail, text, and multimedia services as they roam from home to auto to office to outdoor/indoor locations. In addition, there is an increasing demand to replace separate landline/mobile telephones with a single handset that can be used wherever its owner might be. Answering those customer needs, fixed/mobile convergence (FMC) marries the mobility provided by cellular networks with the extended connectivity provided by 802.11-based WiFi services and integrates them with landline networks using a single handset. This book provides the theoretical and practical background necessary to successfully plan, develop, and deploy effective FMC networks. This book discusses the various 802.11 and VoIP protocols used in FMC networks, open and proprietary communications protocols, integration of FMC networks to wired telephone networks, mobilizing applications such as text messaging and video, security issues, mobile handset requirements for FMC networks, and the administration/management of FMC networks. Special attention is given to selecting appropriate components for FMC, and numerous case histories and examples from the author's experience are provided. This book is an essential tutorial and reference for any RF/wireless, communications, and networking professional who will work with the next generation of wireless networks. - Describes how to develop, deploy, and manage networks that seamlessly combine landline, cellular, and WiFi networks into one converged communications network - Thorough coverage of various 802.11 and voice over internet protocol (VoIP) standards and how they impact integration with cellular networks - Discusses security considerations and how to successfully manage converged networks - Includes numerous case histories and examples from the author's experience---this is not a purely theoretical treatment of the subject!

Mobile and Wireless Networks Lulu.com

In a constant stream of new ideas, wireless technologies continue to emerge offering a range of capabilities, each affording simplicity and ease-of-use. Such diversity and choice should surely beg the question, "are manufacturers using the right technology for the right product? Developing Practical Wireless Applications will explore this question and, in doing so, will illustrate many of the wireless technologies currently available whilst drawing upon their individual strengths and weaknesses. More specifically, the book will draw your attention to the diverse collection of standardized and proprietary solutions available to manufacturers. As developers and innovators your choices are not restricted to any norm and, as such, a standardized or proprietary solution may afford you greater benefits in realising any product roadmap. Developing Practical Wireless Applications will provide you with a comprehensive understanding of how each technology works, coupled with an exploration into overlapping, complementary and competing technologies. In establishing this foundation, we will explore wireless applications in their context and address their suitability. In contrast, the book also considers the practicality of a wireless world in an attempt to better understand our audience and specific demographic groups. Coupled with a richer understanding of our consumers, along with our technology make-up we can indeed target wireless products more effectively. *Explores techniques used to attack wireless networks including WarXing, WarChalking, BlueJacking, and BlueSnarfing* Discusses applications utilizing ZigBee, NFC, RFID, Ultra-Wideband and WirelessUSB (WiMedia)*Details Bluetooth 2.x +EDR and introduces the v3.0 (BTOverUWB) specification *Includes fundamental introductions to WiFi, namely 802.11i, 802.11p and 802.11n*Compares personal-area and wide-area communications including 3G, HSDPA, 4G, and WiMAX, as well as introducing Wireless Convergence

Key Technologies for On-Demand 6G Network Services CRC Press

This book constitutes the refereed proceedings of the Third International Conference on HCI for Cybersecurity, Privacy and Trust, HCI-CPT 2021, held as part of the 23rd International Conference, HCI International 2021, which took place virtually in July 2021. The total of 1276 papers and 241 posters included in the 39 HCII 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions. HCI-CPT 2021

includes a total of 30 papers; they were organized in topical sections named: usable security; security and privacy by design; user behavior analysis in cybersecurity; and security and privacy awareness.

Being Mobile Apress

From the editors of the highly successful LTE for UMTS: Evolution to LTE-Advanced, this new book examines the main technical enhancements brought by LTE-Advanced, thoroughly covering 3GPP Release 10 specifications and the main items in Release 11. Using illustrations, graphs and real-life scenarios, the authors systematically lead readers through this cutting-edge topic to provide an outlook on existing technologies as well as possible future developments. The book is structured to follow the main technical areas that will be enhanced by the LTE-Advanced specifications. The main topics covered include: Carrier Aggregation; Multiantenna MIMO Transmission, Heterogeneous Networks; Coordinated Multipoint Transmission (CoMP); Relay nodes; 3GPP milestones and IMT-Advanced process in ITU-R; and LTE-Advanced Performance Evaluation. Key features: Leading author and editor team bring their expertise to the next generation of LTE technology Includes tables, figures and plots illustrating the concepts or simulation results, to aid understanding of the topic, and enabling readers to be ahead of the technological advances

Wireless Mesh Networking Elsevier

This book introduces the problems facing Internet of Things developers and explores current technologies and techniques to help you manage, mine, and make sense of the data being collected through the use of the world's most popular database on the Internet - MySQL. The IoT is poised to change how we interact with and perceive the world around us, and the possibilities are nearly boundless. As more and more connected devices generate data, we will need to solve the problem of how to collect, store, and make sense of IoT data by leveraging the power of database systems. The book begins with an introduction of the MySQL database system and storage of sensor data. Detailed instructions and examples are provided to show how to add database nodes to IoT solutions including how to leverage MySQL high availability, including examples of how to protect data from node outages using advanced features of MySQL. The book closes with a comparison of raw and transformed data showing how transformed data can improve understandability and help you cut through a clutter of superfluous data toward the goal of mining nuggets of useful knowledge. In this book, you'll learn to: Understand the crisis of vast volumes of data from connected devices Transform data to improve reporting and reduce storage volume Store and aggregate your IoT data across multiple database servers Build localized, low-cost MySQL database servers using small and inexpensive computers Connect Arduino boards and other devices directly to MySQL database servers Build high availability MySQL solutions among low-power computing devices

Fixed Wireless Springer Nature

This book provides a simplified visionary approach about the future direction of IoT, addressing its wide-scale adoption in many markets, its interception with advanced technology, the explosive growth in data, and the emergence of data analytics. IoT business applications span multiple vertical markets. The objective is to inspire creative thinking and collaboration among startups and entrepreneurs which will breed innovation and deliver IoT solutions that will positively impact us by making business processes more efficient, and improving our quality of life. With increasing proliferation of smart-phones and social media, data generated by user wearable/mobile devices continue to be key sources of information about us and the markets around us. Better insights will be gained through cognitive computation coupled with business intelligence and visual analytics that are GIS-based.

Internet of Things K.K. Publications

The development of connected, communicating objects is showing no signs of slowing down. With an increasing number of objects available on the market, the evolution of the Internet of Things is leading to more and more fields being explored via information and communication sciences. This book analyzes the ecosystem of the Internet of Things by retracing the historical and technological context of the Internet's evolution from traditional to dynamic, social and semantic, and then towards this ecosystem of connected objects. The evolution of concepts surrounding the Internet of Things is explored via real-life examples of connected objects; both those used for specific functions and for more general everyday objects. Numerous issues associated with these new technological and digital transformations in a "hyperconnected" world, as well as the impact of the massive influx of connected objects, are discussed. The crucial questions of potential intrusion into the private lives of users as well that of security are then studied.

Developing Practical Wireless Applications Packt Publishing Ltd

This book exemplifies how smart buildings have a crucial role to play for the future of energy. The book investigates what already exists in regards to technologies, approaches and solutions both with a scientific and technological point of view. The authors cover solutions for mirroring and tracing human activities, optimal strategies to configure home settings, and generating explanations and persuasive dashboards to get occupants better committed in their home energy managements. Solutions are adapted from the fields of Internet of Things, physical modeling, optimization, machine learning and applied artificial intelligence. Practical applications are given throughout.

LTE Advanced Springer Nature

Explore IoT, data analytics, and machine learning to solve cyber-physical problems using the latest capabilities of managed services such as AWS IoT Greengrass and Amazon SageMaker Key FeaturesAccelerate your next edge-focused product development with the power of AWS IoT GreengrassDevelop proficiency in architecting resilient solutions for the edge with proven best practicesHarness the power of analytics and machine learning for solving cyber-physical problemsBook Description The Internet of Things (IoT) has transformed how people think about and interact with the world. The ubiquitous deployment of sensors around us makes it possible to study the world at any level of accuracy and enable data-driven decision-making anywhere. Data analytics and machine learning (ML) powered by elastic cloud computing have accelerated our ability to understand and analyze the huge amount of data generated by IoT. Now, edge computing has brought information technologies closer to the data source to lower latency and reduce costs. This book will teach you how to combine the technologies of edge computing, data analytics, and ML to deliver next-generation

cyber-physical outcomes. You'll begin by discovering how to create software applications that run on edge devices with AWS IoT Greengrass. As you advance, you'll learn how to process and stream IoT data from the edge to the cloud and use it to train ML models using Amazon SageMaker. The book also shows you how to train these models and run them at the edge for optimized performance, cost savings, and data compliance. By the end of this IoT book, you'll be able to scope your own IoT workloads, bring the power of ML to the edge, and operate those workloads in a production setting. What you will learn

Build an end-to-end IoT solution from the edge to the cloud
Design and deploy multi-faceted intelligent solutions on the edge
Process data at the edge through analytics and ML
Package and optimize models for the edge using Amazon SageMaker
Implement MLOps and DevOps for operating an edge-based solution
Onboard and manage fleets of edge devices at scale
Review edge-based workloads against industry best practices
Who this book is for This book is for IoT architects and software engineers responsible for delivering analytical and machine learning-backed software solutions to the edge. AWS customers who want to learn and build IoT solutions will find this book useful. Intermediate-level experience with running Python software on Linux is required to make the most of this book.

Sensing as a Service for Internet of Things: A Roadmap Springer Science & Business Media

This book presents the state of the art in the field of mobile and wireless networks, and anticipates the arrival of new standards and architectures. It focuses on wireless networks, starting with small personal area networks and progressing onto the very large cells of wireless regional area networks, via local area networks dominated by WiFi technology, and finally metropolitan networks. After a description of the existing 2G and 3G standards, with LTE being the latest release, LTE-A is addressed, which is the first 4G release, and a first indication of 5G is provided as seen through the standardizing bodies. 4G technology is described in detail along with the different LTE extensions related to the massive arrival of femtocells, the increase to a 1 Gbps capacity, and relay techniques. 5G is also discussed in order to show what can be expected in the near future. The Internet of Things is explained in a specific chapter due to its omnipresence in the literature, ad hoc and mesh networks form another important chapter as they have made a comeback after a long period of near hibernation, and the final chapter discusses a particularly recent topic: Mobile-Edge Computing (MEC) servers.

Emerging Technologies in Wireless LANs CRC Press

Data Communication and Network Systems This book is an attempt to explain the basic fundamentals of Data Communications and Networks systems. A revolution in wireless and mobile communications began in the first decade of the 20th century with pioneering developments in wireless radio communications by Nikola Tesla and Guglielmo Marconi in Physics in 1909 for his efforts. It includes new standards, new levels, new sets of protocols and various data communication facilities in the field of communication and computer field the book a readable and students friendly format which is according to the requirement of students, teachers and professionals in the field of the research area, underpinning up-to-date advanced topic in education.

A Handbook for the Online Student Cambridge University Press

From Internet of Things to Smart Cities: Enabling Technologies explores the information and communication technologies (ICT) needed to enable real-time responses to current environmental, technological, societal, and economic challenges. ICT technologies can be utilized to help with reducing carbon emissions, improving resource utilization efficiency, promoting active engagement of citizens, and more. This book aims to introduce the latest ICT technologies and to promote international collaborations across the scientific community, and eventually, the general public. It consists of three tightly coupled parts. The first part explores the involvement of enabling technologies from basic machine-to-machine communications to Internet of Things technologies. The second part of the book focuses on state of the art data analytics and security techniques, and the last part of the book discusses the design of human-machine interfaces, including smart home and cities. Features Provides an extended literature review of relevant technologies, in addition to detailed comparison diagrams, making new readers be easier to grasp fundamental and wide knowledge Contains the most recent research results in the field of communications, signal processing and computing sciences for facilitating smart homes, buildings, and cities Includes future research directions in Internet of Things, smart homes, smart buildings, smart grid, and smart cities Presents real examples of applying these enabling technologies to smart homes, transportation systems and cities With contributions from leading experts, the book follows an easy structure that not only presents timely research topics in-depth, but also integrates them into real world applications to help readers to better understand them.

How Internet Protocol-enabled Services are Changing the Face of Communications Artech House

With the spread of the coronavirus, courses everywhere have gone from face-to-face to online almost in the blink of an eye. As a result, students are facing challenges they never imagined. They can feel overwhelmed by online learning, which seems to take effort than face-to-face classes. Self-discipline and time management can become major challenges, especially if they're trying to balance school work with home life. Deadlines can sneak up on them. Getting answers to questions can become a much more complicated process. But it doesn't have to be this way. A Handbook for the Online Student is the only guide aimed at students who've had to transition to online learning during the coronavirus. The author is an award-winning teacher who's both taught and taken online courses for many years. In this book, he provides online students with a set of tips, tricks, and red flags to help students win big in the new learning landscape.

Internet of Things Vulnerabilities and Recovery Strategies Cambridge University Press

"This book highlights and discusses the underlying QoS issues that arise in the delivery of real-time multimedia services over wireless networks"--Provided by publisher.

Fixed/Mobile Convergence and Beyond John Wiley & Sons

The Sensing as a Service model envisions to extract more value out of Internet of Things paradigm. This book aims to lay down a roadmap towards building the sensing as a Service model on top of the Internet of Things ecosystem.

Intelligent Workloads at the Edge Information Gatekeepers Inc

A promising new technology, wireless mesh networks are playing an increasingly important role in the future generations of wireless mobile networks. Characterized by dynamic self-organization, self-configuration, and self-healing to enable quick deployment, easy maintenance, low cost, high scalability, and reliable services, this technology is beco

The Digital Consumer Technology Handbook Information Gatekeepers Inc

Quickly learn to program for microcontrollers and IoT devices without a lot of study and expense. MicroPython and controllers that support it eliminate the need for programming in a C-like language, making the creation of IoT applications and devices easier and more accessible than ever. MicroPython for the Internet of Things is ideal for readers new to electronics and the world of IoT. Specific examples are provided covering a range of supported devices, sensors, and MicroPython boards such as Pycom's WiPy modules and MicroPython's pyboard. Never has programming for microcontrollers been easier. The book takes a practical and hands-on approach without a lot of detours into the depths of theory. The book: Shows a faster and easier way to program microcontrollers and IoT devices Teaches MicroPython, a variant of one of the most widely used scripting languages Is friendly and accessible to those new to electronics, with fun example projects What You'll Learn Program in MicroPython Understand sensors and basic electronics Develop your own IoT projects Build applications for popular boards such as WiPy and pyboard Load MicroPython on the ESP8266 and similar boards Interface with hardware breakout boards Connect hardware to software through MicroPython Explore the easy-to-use Adafruit IO connecting your microcontroller to the cloud Who This

Book Is For Anyone interested in building IoT solutions without the heavy burden of programming in C++ or C. The book also appeals to those wanting an easier way to work with hardware than is provided by the Arduino and the Raspberry Pi platforms.

From Internet of Things to Smart Cities EGBG Services LLC

This book constitutes the refereed post-conference proceedings of the Fifth IFIP International Cross-Domain Conference on Internet of Things, IFIP IoT 2022, held in Amsterdam in October 2022. The 20 full papers presented were carefully reviewed and selected from 36 submissions. The papers are organized in the following topical sections: IoT for Smart Villages, Security and Safety, Smart Home, Development, Engineering, Machine Learning, and Applications.