

Wireless Network Performance Enhancement via Directional Antennas

Models, Protocols, and Systems



Edited by
John D. Matyjas • Fei Hu • Sunil Kumar

Wireless Network Performance Enhancement Via Directional Antennas Models Protocols And Systems

**Mubashir Husain Rehmani, Al-Sakib
Khan Pathan**



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Spectrum Sharing in Wireless Networks John D. Matyjas, Sunil Kumar, Fei Hu, 2016-11-17 Spectrum Sharing in Wireless Networks Fairness Efficiency and Security provides a broad overview of wireless network spectrum sharing in seven distinct sections The first section examines the big picture and basic principles explaining the concepts of spectrum sharing hardware software function requirements for efficient sharing and future trends of sharing strategies The second section contains more than 10 chapters that discuss differing approaches to efficient spectrum sharing The authors introduce a new coexistence and sharing scheme for multi hop networks describe the space time sharing concept introduce LTE U and examine sharing in broadcast and unicast environments They then talk about different cooperation strategies to achieve mutual benefits for primary users PU and secondary users SU discuss protocols in a spectrum sharing context and provide different game theory models between PUs and SUs The third section explains how to model the interactions of PUs and SUs using an efficient calculation method to determine spectrum availability Additionally this section explains how to use scheduling models to achieve efficient SU traffic delivery The subject of the fourth section is MIMO oriented design It focuses on how directional antennas and MIMO antennas greatly enhance wireless network performance The authors include a few chapters on capacity rate calculations as well as beamforming issues under MIMO antennas Power control is covered in the fifth section which also describes the interference aware power allocation schemes among cognitive radio users and the power control schemes in cognitive radios The sixth section provides a comprehensive look at security issues including different types of spectrum sharing attacks and threats as well as corresponding countermeasure schemes The seventh and final section covers issues pertaining to military applications and examines how the military task protects its data flows when sharing the spectrum with civilian applications

Handbook on Session Initiation Protocol Radhika Ranjan Roy, 2018-09-03 Session Initiation Protocol SIP standardized by the Internet Engineering Task Force IETF has emulated the simplicity of the protocol architecture of hypertext transfer protocol HTTP and is being popularized for VoIP over the Internet because of the ease with which it can be meshed with web services

However it is difficult to know exactly how many requests for comments RFCs have been published over the last two decades in regards to SIP or how those RFCs are interrelated Handbook on Session Initiation Protocol Networked Multimedia Communications for IP Telephony solves that problem It is the first book to put together all SIP related RFCs with their mandatory and optional texts in a chronological and systematic way so that it can be used as a single super SIP RFC with an almost one to one integrity from beginning to end allowing you to see the big picture of SIP for the basic SIP functionalities It is a book that network designers software developers product manufacturers implementers interoperability testers professionals professors and researchers will find to be very useful The text of each RFC from the IETF has been reviewed by all members of a given working group made up of world renowned experts and a rough consensus made on which parts of the drafts need to be mandatory and optional including whether an RFC needs to be Standards Track Informational or Experimental Texts ABNF syntaxes figures tables and references are included in their original form All RFCs along with their authors are provided as references The book is organized into twenty chapters based on the major functionalities features and capabilities of SIP

Introduction to Radio Engineering Nathan Blaunstein,Christos Christodoulou,Mikhail Sergeev,2016-10-14 The book introduces the basic foundations of high mathematics and vector algebra Then it explains the basic aspects of classical electrodynamics and electromagnetism Based on such knowledge readers investigate various radio propagation problems related to guiding structures connecting electronic devices with antenna terminals placed at the different radar systems It explains the role of antennas in process of transmission of radio signals between the terminals Finally it shows the relation between the main operational characteristics of each kind of radar and the corresponding knowledge obtained from the previous chapters

Emerging Communication Technologies Based on Wireless Sensor Networks Mubashir Husain Rehmani,Al-Sakib Khan Pathan,2016-04-05 This book fills a gap in the existing literature by combining a plethora of WSN based emerging technologies into a single source so that reviewers can form opinions regarding these technologies It presents different types of emerging communication technologies based on WSNs and describes how wireless sensor networks can be integrated with other communication technologies It covers many of the new techniques and demonstrates the application of WSNs The book is composed of 14 chapters divided into four parts

Advances in Mobile Computing and Communications M. Bala Krishna,Jaime Lloret Mauri,2016-08-19 By 2020 if not before mobile computing and wireless systems are expected to enter the fifth generation 5G which promises evolutionary if not revolutionary services What those advanced services will look like sound like and feel like is the theme of the book Advances in Mobile Computing and Communications Perspectives and Emerging Trends in 5G Networks The book explores futuristic and compelling ideas in latest developments of communication and networking aspects of 5G As such it serves as an excellent guide for advanced developers communication network scientists researchers academicians and graduate students The authors address computing models communication architecture and protocols based on 3G LTE LTE A 4G and

beyond Topics include advances in 4G radio propagation and channel modeling aspects of 4G networks limited feedback for 4G and game theory application for power control and subcarrier allocation in OFDMA cellular networks Additionally the book covers millimeter wave technology for 5G networks multicellular heterogeneous networks and energy efficient mobile wireless network operations for 4G and beyond using HetNets Finally the authors delve into opportunistic multiconnect networks with P2P WiFi and cellular providers and video streaming over wireless channels for 4G and beyond Advances in Mobile Cloud Computing and Big Data in the 5G Era Constandinos X. Mavromoustakis, George Mastorakis, Ciprian Dobre, 2016-11-19 This book reports on the latest advances on the theories practices standards and strategies that are related to the modern technology paradigms the Mobile Cloud computing MCC and Big Data as the pillars and their association with the emerging 5G mobile networks The book includes 15 rigorously refereed chapters written by leading international researchers providing the readers with technical and scientific information about various aspects of Big Data and Mobile Cloud Computing from basic concepts to advanced findings reporting the state of the art on Big Data management It demonstrates and discusses methods and practices to improve multi source Big Data manipulation techniques as well as the integration of resources availability through the 3As Anywhere Anything Anytime paradigm using the 5G access technologies **Security and Privacy in Internet of Things (IoTs)** Fei Hu, 2016-04-05 The Internet of Things IoT has attracted strong interest from both academia and industry Unfortunately it has also attracted the attention of hackers Security and Privacy in Internet of Things IoTs Models Algorithms and Implementations brings together some of the top IoT security experts from around the world who contribute their knowledg *Big Data* Fei Hu, 2016-04-27 Although there are already some books published on Big Data most of them only cover basic concepts and society impacts and ignore the internal implementation details making them unsuitable to R D people To fill such a need Big Data Storage Sharing and Security examines Big Data management from an R D perspective It covers the 3S desi

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