

Wireless Communication Networks and Systems



Tom Sparks

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Alagan Anpalagan, Isaac
Woungang, Mohammad S. Obaidat



Wireless Communication Networks And Systems:

Wireless Communication Networks and Systems William Stallings, Cory Beard, 2015-01-27 For courses in wireless communication networks and systems A Comprehensive Overview of Wireless Communications Wireless Communication Networks and Systems covers all types of wireless communications from satellite and cellular to local and personal area networks Organized into four easily comprehensible reader friendly parts it presents a clear and comprehensive overview of the field of wireless communications For those who are new to the topic the book explains basic principles and fundamental topics concerning the technology and architecture of the field Numerous figures and tables help clarify discussions and each chapter includes a list of keywords review questions homework problems and suggestions for further reading The book includes an extensive online glossary a list of frequently used acronyms and a reference list A diverse set of projects and other student exercises enables instructors to use the book as a component in a varied learning experience tailoring courses to meet their specific needs

Wireless-Powered Communication Networks Dusit Niyato, Ekram Hossain, Dong In Kim, Vijay Bhargava, Lotfollah Shafai, 2016-11-17 Learn the fundamentals of architecture design protocol optimization and application development for wireless powered communication networks with this authoritative guide Readers will gain a detailed understanding of the issues surrounding architecture and protocol design with key topics covered including relay based energy harvesting systems multiple antenna systems for simultaneous wireless information and power transfer SWIPT performance modeling and analysis and ambient wireless energy harvesting based cellular systems Current applications of energy harvesting and transfer in different wireless networking scenarios are discussed aiding the understanding of practical system development and implementation issues from an engineering perspective The first book to provide a unified view of energy harvesting and wireless power transfer networks from a communications perspective this is an essential text for researchers working on wireless communication networks and wireless systems RF engineers and wireless application developers

Introduction to Wireless Communications and Networks Krishnamurthy Raghunandan, 2022-03-31 This book provides an intuitive and accessible introduction to the fundamentals of wireless communications and their tremendous impact on nearly every aspect of our lives The author starts with basic information on physics and mathematics and then expands on it helping readers understand fundamental concepts of RF systems and how they are designed Covering diverse topics in wireless communication systems including cellular and personal devices satellite and space communication networks telecommunication regulation standardization and safety the book combines theory and practice using problems from industry and includes examples of day to day work in the field It is divided into two parts basic fundamentals and advanced elected topics Drawing on the author's extensive training and industry experience in standards public safety and regulations the book includes information on what checks and balances are used by wireless engineers around the globe and address questions concerning safety reliability and long term operation A full suite of classroom information is included

Wireless Communications and Networking William Stallings, 2002 For one semester undergraduate graduate level courses in Advanced Networking Wireless Communications Wireless Data Communications and Wireless Technology in departments of Electrical Engineering Computer Science Information Science and Computer Engineering This comprehensive well organized text covers wireless communication and networks and the rapidly growing associated technologies the most exciting areas in the overall communications field It explores the key topics in the following general categories technology and architecture network type design approaches and applications An emphasis on specific wireless standards reflects the importance of such standards in defining the available products and future research directions in this field Coverage of basic networking concepts in Part One and Appendices appropriate for students with little or no background in data communications Consistent discussion of technology and architecture illustrates how a small collection of ingredients including frequency band signal encoding techniques error correction technique and network architecture characterize and differentiate wireless communication and networking

Wireless Communications: Networks and Systems Ruby Long, 2020-09-08 A transfer of power or information can occur between two or more points without wires cables or fiber optics facilitating the transmission This is possible through wireless technology using infrared radio frequency microwave or acoustic wave communication Cell phones remote garage door openers two way radios GPS receivers television remote controls etc use wireless technology Wireless telecommunication networks are implemented using radio communication Wireless sensor networks cell phone networks wireless local area networks etc are examples of wireless networks The use of wireless modems satellites and microwave transmitters has facilitated the access to Internet This book unfolds the innovative aspects of wireless communication It is a valuable compilation of topics ranging from the basic to the most complex advancements in this area of study The coherent flow of topics student friendly language and extensive use of examples make it an invaluable source of knowledge

Security in Wireless Communication Networks Yi Qian, Feng Ye, Hsiao-Hwa Chen, 2021-12-01 Receive comprehensive instruction on the fundamentals of wireless security from three leading international voices in the field *Security in Wireless Communication Networks* delivers a thorough grounding in wireless communication security The distinguished authors pay particular attention to wireless specific issues like authentication protocols for various wireless communication networks encryption algorithms and integrity schemes on radio channels lessons learned from designing secure wireless systems and standardization for security in wireless systems The book addresses how engineers administrators and others involved in the design and maintenance of wireless networks can achieve security while retaining the broadcast nature of the system with all of its inherent harshness and interference Readers will learn A comprehensive introduction to the background of wireless communication network security including a broad overview of wireless communication networks security services the mathematics crucial to the subject and cryptographic techniques An exploration of wireless local area network security including Bluetooth security Wi Fi security

and body area network security An examination of wide area wireless network security including treatments of 2G 3G and 4G Discussions of future development in wireless security including 5G and vehicular ad hoc network security Perfect for undergraduate and graduate students in programs related to wireless communication Security in Wireless Communication Networks will also earn a place in the libraries of professors researchers scientists engineers industry managers consultants and members of government security agencies who seek to improve their understanding of wireless security protocols and practices

Wireless Communication Networks and Systems Tom Sparks, 2022-09-20 Computer networks which use wireless data connections for transfer of information between two network nodes are known as wireless networks Most of the wireless networks make use of radio waves for transferring data between different nodes of a network Some of the other technologies employed for wireless communication are terrestrial microwaves free space optical communication and satellites These networks can be broadly categorized into wireless personal area networks WPAN wireless local area networks WLAN wireless ad hoc networks WANET cellular networks global networks and space networks A few examples of cellular networks are global systems for mobile communication personal communication service and digital advanced mobile phone service This book unfolds the innovative aspects of wireless communication networks and systems which will be crucial for the holistic understanding of the subject matter It is an essential guide for both academicians and those who wish to pursue this discipline further Coherent flow of topics student friendly language and extensive use of examples make this textbook an invaluable source of knowledge

Wireless Communication Networks and Systems, Global Edition Cory Beard, William Stallings, 2016-01-05 For courses in wireless communication networks and systems A Comprehensive Overview of Wireless Communications Wireless Communication Networks and Systems covers all types of wireless communications from satellite and cellular to local and personal area networks Organised into four easily comprehensible reader friendly parts it presents a clear and comprehensive overview of the field of wireless communications For those who are new to the topic the book explains basic principles and fundamental topics concerning the technology and architecture of the field Numerous figures and tables help clarify discussions and each chapter includes a list of keywords review questions homework problems and suggestions for further reading The book includes an extensive online glossary a list of frequently used acronyms and a reference list A diverse set of projects and other student exercises enables instructors to use the book as a component in a varied learning experience tailoring courses to meet their specific needs The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed

Handbook of Green Information and Communication Systems

Alagan Anpalagan, Isaac Woungang, Mohammad S. Obaidat, 2012-11-20 This book gives a comprehensive guide on the fundamental concepts applications algorithms protocols new trends and challenges and research results in the area of Green Information and Communications Systems It is an invaluable resource giving knowledge on the core and specialized issues in the field making it highly suitable for both the new and experienced researcher in this area Key Features Core research topics of green information and communication systems are covered from a network design perspective giving both theoretical and practical perspectives Provides a unified covering of otherwise disperse selected topics on green computing information communication and networking Includes a set of downloadable PowerPoint slides and glossary of terms for each chapter A whole host of international contributors Extensive bibliography for enhancing further knowledge Coverage includes Smart grid technologies and communications Spectrum management Cognitive and autonomous radio systems Computing and communication architectures Data centres Distributed networking Cloud computing Next generation wireless communication systems 4G access networking Optical core networks Cooperation transmission Security and privacy Core research topics of green information and communication systems are covered from a network design perspective giving both a theoretical and practical perspective A whole host of international contributors Extensive bibliography for enhancing further knowledge

Recent Advances in Wireless Communications and Networks Jia-Chin Lin, 2011-08-23 This book focuses on the current hottest issues from the lowest layers to the upper layers of wireless communication networks and provides real time research progress on these issues The authors have made every effort to systematically organize the information on these topics to make it easily accessible to readers of any level This book also maintains the balance between current research results and their theoretical support In this book a variety of novel techniques in wireless communications and networks are investigated The authors attempt to present these topics in detail Insightful and reader friendly descriptions are presented to nourish readers of any level from practicing and knowledgeable communication engineers to beginning or professional researchers All interested readers can easily find noteworthy materials in much greater detail than in previous publications and in the references cited in these chapters

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