

# Satellite Communication Systems

3rd Edition

Edited by B.G. Evans

# Telecommunication Networks I

## Series 1

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## **Telecommunication Networks Iee Telecommunications Series 1:**

Telecommunication System Engineering Roger L. Freeman, 2015-07-31 From the review of the Third Edition A must for anyone involved in the practical aspects of the telecommunications industry CHOICE Outlines the expertise essential to the successful operation and design of every type of telecommunications networks in use today New edition is fully revised and expanded to present authoritative coverage of the important developments that have taken place since the previous edition was published Includes new chapters on hot topics such as cellular radio asynchronous transfer mode broadband technologies and network management **IEE Telecommunications Series** Institution of Electrical Engineers, 1986

**Optoelectronic Switching Systems in Telecommunications and Computers** Elion, 1984-05-03 This book presents the general engineering considerations that have resulted in a fundamental change in telecommunications computer networks It emphasizes optoelectronic switching in the fusion into traditional telecommunications *Network Control and Engineering for QoS, Security and Mobility, V* Dominique Gaiti, 2007-01-26 The increasing demand for sophisticated network applications allied to the growth of the Internet traffic has led to great efforts in the search of improvements in data transmission technologies with the intention of satisfying the increasing demand for bandwidth So far as optical networking is concerned WDM Wavelength Division Multiplexing appears as the main advance in the transmission area because it allows transmission rates near to the theoretical limit of optical fibers of the order of dozens of terabits a second 1 An essential issue in optical network design is defining how the network will be controlled that is what type of signalling will be responsible for resource reservation route determination and fault handling among other functions that constitute the control plane Label switching which in IP networks is exemplified by MPLS Multiprotocol Label Switching 2 was extended through GMPLS Generalized Multiprotocol Label Switching 3 to operate with several different network technologies where the label can be represented in other ways for example as time slots in TDM networks as physical switch ports and as wavelengths  $\lambda$ s in WDM networks *High-performance Communication Networks* Jean Walrand, Pravin Pratap Varaiya, 2000 Retaining the first edition's technology centred perspective this book gives readers a sound understanding of packet switched circuit switched and ATM networks and techniques for controlling them **International Reference Guide to Space Launch Systems** Steven J. Isakowitz, Joseph P. Hopkins, Joshua B. Hopkins, 1999 This best selling reference guide contains the most reliable and up to date material on launch programs in Brazil China Europe India Israel Japan Russia Ukraine and the United States Packed with illustrations and figures the third edition has been extensively updated and expanded and offers a quick and easy data retrieval source for policymakers planners engineers launch buyers and students **5G Green Mobile Communication Networks** Xiaohu Ge, Wuxiong Zhang, 2019-05-17 This book focuses on the modeling optimization and applications of 5G green mobile communication networks aimed at improving energy efficiency and spectrum utilization in 5G systems It offers a balance between theoretical analysis and engineering practice providing in

depth studies of a number of major topics such as energy consumption models optimization system design implementation and performance evaluation It also discusses four aspects of green communication in detail cellular networks resource management wireless transmissions and multi media communications Further this unique book comprehensively and systematically discusses green optimization in wireless mobile communications As such it is a valuable resource for researchers engineers and graduate students in various fields including telecommunications engineering electrical and electronic engineering and computer engineering particularly those interested in green communications

*Optimization for Wireless Powered Communication Networks* Guan Gui,Bin Lyu,2018-10-27 This SpringerBrief introduces the basics of wireless powered communication networks WPCNs In particular the background and concept of WPCNs are briefly discussed Moreover this brief provides an extensive study of the recent developments in this area from an optimization perspective Wireless powered communication network WPCN is a new network paradigm for IoT where wireless devices WDs are powered by radio frequency RF based wireless power transfer WPT to eliminate the need for recharging or replacing the batteries manually and to prolong their lifetime In this context the brief also discusses some optimization problems for state of the art scenarios of wireless powered communication networks The target audiences for this SpringerBrief are researchers engineers and undergraduate and graduate level students who are studying or working in wireless powered communication networks and its performance optimization

**Wireless Powered Communication Networks** Abbas Jamalipour,Ying Bi,2018-10-12 This textbook introduces Wireless Powered Communication Networks WPCNs as a promising paradigm to overcome the energy bottleneck suffered by traditional wireless communication networks as well as emerging Internet of Things networks It selectively spans a coherent spectrum of fundamental aspects in WPCNs such as wireless energy transfer WEH techniques radio frequency RF energy harvesting receiver model simultaneous wireless information and power transfer SWIPT as well as the rate energy tradeoff arising from the joint transmission of information and energy using the same waveform It covers network models for WPCNs including the baseline and dual hop WPCN models and a variety of related extensions This book further examines the key factors including throughput fairness and security that must be taken into account for impeccable operation of WPCNs The new IoT applications are targeted as a key element in those factors It will also include exercises and examples throughout the book as well as their PLS solutions This is the first textbook examining the current research to provide a unified view of wireless power transfer WPT and information transmission in WPCNs from a physical layer security PLS perspective Focused on designing efficient secure transmission schemes analyzing energy involvement process and evaluating secrecy outage performance under different channel state information CSI the results presented in this book shed light on how to best balance security and throughput with prudent use of harvested energy in WCNs It also provides an overview of the WPCNs by introducing the background of WPT followed by a summary of the research conducted in the field The authors describe the physical layer security PLS problem in WPCNs including the causes

and the impacts of the problem on the performance of WPCNs The authors extend the discussions by introducing the applications of WPCNs in the IoT From the Internet of Things IoT point of view this textbook reviews the opportunities and challenges for the lately emerged WPCN to seamlessly integrate into the IoT ecosystem It specifically addresses the maximization problem of uplink and downlink sum throughput in a dual hop WPCN while taking fairness among WPCN users as a constraint The results provided in this book reveal valuable insights into improving the design and deployment of future WPCNs in the upcoming IoT environment This textbook targets advanced level students studying wireless communications and research engineers working in this field Industry engineers in mobile device and network development business with an interest in WPCNs and IoT as well as their PLS solutions will also find this book useful

Cognitive Radio, Mobile Communications and Wireless Networks Mubashir Husain Rehmani, Riadh Dhaou, 2018-07-30 This book provides an overview of the latest research and development of new technologies for cognitive radio mobile communications and wireless networks The contributors discuss the research and requirement analysis and initial standardization work towards 5G cellular systems and the capacity problems it presents They show how cognitive radio with the capability to flexibly adapt its parameters has been proposed as the enabling technology for unlicensed secondary users to dynamically access the licensed spectrum owned by legacy primary users on a negotiated or an opportunistic basis They go on to show how cognitive radio is now perceived in a much broader paradigm that will contribute to solve the resource allocation problem that 5G requirements raise The chapters represent hand selected expanded papers from EAI sponsored and hosted conferences such as the 12th EAI International Conference on Mobile and Ubiquitous Systems the 11th EAI International Conference on Heterogeneous Networking for Quality Reliability Security and Robustness the 10th International Conference on Cognitive Radio Oriented Wireless Networks the 8th International Conference on Mobile Multimedia Communications and the EAI International Conference on Software Defined Wireless Networks and Cognitive Technologies for IoT

*Using Cross-Layer Techniques for Communication Systems* Rashvand, Habib F., 2012-04-30 Although the existing layering infrastructure used globally for designing computers data networks and intelligent distributed systems and which connects various local and global communication services is conceptually correct and pedagogically elegant it is now well over 30 years old has started create a serious bottleneck Using Cross Layer Techniques for Communication Systems Techniques and Applications explores how cross layer methods provide ways to escape from the current communications model and overcome the challenges imposed by restrictive boundaries between layers Written exclusively by well established researchers experts and professional engineers the book will present basic concepts address different approaches for solving the cross layer problem investigate recent developments in cross layer problems and solutions and present the latest applications of the cross layer in a variety of systems and networks

*Data and Energy Integrated Communication Networks* Jie Hu, Kun Yang, 2018-07-23 The book discusses data and energy integrated communication networking technologies including the latest research contributions in

this promising area It firstly provides an overview of data and energy integrated communication networks DEINs and introduces the key techniques for enabling integrated wireless energy transfer WET and wireless information transfer WIT in the radio frequency RF band It then describes the ubiquitous architecture of DEINs and demonstrates the typical DEIN system and investigates the core issues in both the physical layer and the medium access control MAC layer in order to coordinate both the WIT and WET in the same RF band Lastly the book addresses a number of emerging research topics in the field of DEINs It promotes joint efforts from both academia and industry to push DEIN a step closer to practical implementation It is also a valuable resource for students interested in studying cutting edge techniques in this field

Green Machine Learning Protocols for Future Communication Networks Saim Ghafoor,Mubashir Husain

Rehmani,2023-10-25 Machine learning has shown tremendous benefits in solving complex network problems and providing situation and parameter prediction However heavy resources are required to process and analyze the data which can be done either offline or using edge computing but also requires heavy transmission resources to provide a timely response The need here is to provide lightweight machine learning protocols that can process and analyze the data at run time and provide a timely and efficient response These algorithms have grown in terms of computation and memory requirements due to the availability of large data sets These models algorithms also require high levels of resources such as computing memory communication and storage The focus so far was on producing highly accurate models for these communication networks without considering the energy consumption of these machine learning algorithms For future scalable and sustainable network applications efforts are required toward designing new machine learning protocols and modifying the existing ones which consume less energy i e green machine learning protocols In other words novel and lightweight green machine learning algorithms protocols are required to reduce energy consumption which can also reduce the carbon footprint To realize the green machine learning protocols this book presents different aspects of green machine learning for future communication networks This book highlights mainly the green machine learning protocols for cellular communication federated learning based models and protocols for Beyond Fifth Generation networks approaches for cloud based communications and Internet of Things This book also highlights the design considerations and challenges for green machine learning protocols for different future applications

*Next Generation Wireless Terahertz Communication Networks* Saim Ghafoor,Mubashir Husain Rehmani,Alan Davy,2021-08-10 The rapid growth of the data traffic demands new ways to achieve high speed wireless links The backbone networks data centers mission critical applications as well as end users sitting in office or home all require ultra high throughput and ultra low latency wireless links Sophisticated technological advancement and huge bandwidth are required to reduce the latency Terahertz band in this regard has a huge potential to provide these high capacity links where a user can download the file in a few seconds To realize the high capacity wireless links for future applications in this book different aspects of the Terahertz band wireless communication network are presented This book

highlights the Terahertz channel characteristics and modeling antenna design and beamforming device characterization applications and protocols It also provides state of the art knowledge on different communication aspects of Terahertz communication and techniques to realize the true potential of the Terahertz band for wireless communication

**Intelligent Communication Networks** Rajarshi Mahapatra,Siddhartha Bhattacharyya,Avishek Nag,2024-06-06 With the advent of Big Data conventional communication networks are often limited in their inability to handle complex and voluminous data and information as far as effective processing transmission and reception are concerned This book discusses the evolution of computational intelligence techniques in handling intelligent communication networks Provides a detailed theoretical foundation of machine learning and computational intelligence algorithms Highlights the state of art machine learning based solutions for communication networks Presents video demonstrations and code snippets on each chapter for easy understanding of the concepts Discusses applications including resource allocation spectrum management channel estimation and physical layer of wireless networks Demonstrates applications of machine learning techniques for optical networks The text is primarily intended for senior undergraduate and graduate students and academic researchers in fields of electrical engineering electronics and communication engineering and computer engineering **Power Line**

**Communications** Lutz Lampe,Andrea M. Tonello,Theo G. Swart,2016-06-13 This second edition of Power Line Communications will show some adjustments in content including new material on PLC for home and industry PLC for multimedia PLC for smart grid and PLC for vehicles Additional chapters include coverage of Channel Characterization Electromagnetic Compatibility Coupling and Digital Transmission Techniques This book will provide the reader with a wide coverage of the major developments within the field With contributions from some of the most active researchers on PLC the book brings together a wealth of international experts on specific PLC topics New Directions in Wireless Communications

Systems Athanasios G. Kanatas,Konstantina S. Nikita,Panagiotis (Takis) Mathiopoulos,2017-10-16 Beyond 2020 wireless communication systems will have to support more than 1 000 times the traffic volume of today s systems This extremely high traffic load is a major issue faced by 5G designers and researchers This challenge will be met by a combination of parallel techniques that will use more spectrum more flexibly realize higher spectral efficiency and densify cells Novel techniques and paradigms must be developed to meet these goals The book addresses diverse key point issues of next generation wireless communications systems and identifies promising solutions The book s core is concentrated to techniques and methods belonging to what is generally called radio access network *Game Theory Framework Applied to Wireless*

*Communication Networks* Yang, Chungang,Li, Jiandong,2015-08-26 The popularity of smart phones and other mobile devices has brought about major expansion in the realm of wireless communications With this growth comes the need to improve upon network capacity and overall user experience and game based methods can offer further enhancements in this area Game Theory Framework Applied to Wireless Communication Networks is a pivotal reference source for the latest scholarly

research on the application of game theoretic approaches to enhance wireless networking Featuring prevailing coverage on a range of topics relating to the advanced game model mechanism designs and effective equilibrium concepts this publication is an essential reference source for researchers students technology developers and engineers This publication features extensive research based chapters across a broad scope of relevant topics including potential games coalition formation game heterogeneous networks radio resource allocation coverage optimization distributed dynamic resource allocation dynamic spectrum access physical layer security and cooperative video transmission

**Game Theory in Wireless and Communication Networks** Zhu Han, 2012 This unified 2001 treatment of game theory focuses on finding state of the art solutions to issues surrounding the next generation of wireless and communications networks The key results and tools of game theory are covered as are various real world technologies and a wide range of techniques for modeling design and analysis

**Evolution of Cognitive Networks and Self-Adaptive Communication Systems** Lagkas, Thomas D., Sarigiannidis, Panagiotis, Louta, Malamati, Chatzimisios, Periklis, 2013-06-30 Cognitive networks can be crucial for the evolution of future communication systems however current trends have indicated major movement in other relevant fields towards the integration of different techniques for the realization of self aware and self adaptive communication systems Evolution of Cognitive Networks and Self Adaptive Communication Systems overviews innovative technologies combined for the formation of self aware self adaptive and self organizing networks By aiming to inform the research community and the related industry of solutions for cognitive networks this book is essential for researchers instructors and professionals interested in clarifying the latest trends resulting in a unified realization for cognitive networking and communication systems



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