

Satellite Networking Principles And Protocols

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Satellite Networking: Principles and Protocols, Second Edition provides up to date information of the original topics in satellite networking and protocols focusing on Internet Protocols (IP) over satellites, broadband over satellites, next generation IP (IPv6) over satellites, new generation of DVB-S/S2 and DVB-RCS next generations and new services and applications. It also includes some analytical techniques for evaluation of end to end IP performance and QoS over satellite, reflecting the ...

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Introduces the basics of ATM and internet protocols, and characteristics of satellite networks and internetworking between satellite and terrestrial networks Discusses the real-time protocols including RTP, RTCP and SIP for real-time applications such as VoIP and MMC Coverage of new services and applications, internet traffic engineering and MPLS Examines IPv6 over satellite using tunnelling and translation techniques, evolution of earth stations, user terminals and network protocols, and ...

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With increasing bandwidth and mobility demands on the horizon, satellites have become an integral part of the Global Network Infrastructure (GNI). Satellite Networking: Principles and Protocols provides a balanced coverage of satellite topics from a network point of view, focusing on network aspects, services and applications, quality of service (QoS) and principles and protocols.

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Description This book provides up to date coverage of the basics of ATM and internet protocols, and characteristics of satellite networks and internetworking between satellite and terrestrial networks Satellite Networking: Principles and Protocols, Second Edition provides up to date information of the original topics in satellite networking and protocols focusing on Internet Protocols (IP) over satellites, broadband over satellites, next generation IP (IPv6) over satellites, new generation ...

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This chapter aims to provide an introduction to the internet protocol (IP) over satellite networks. It explains satellite networking from different viewpoints: protocol centric, network centric and satellite centric. It also explains: how to encapsulate IP packet into different frames of different network technologies; IP extensions including IP multicast, IP security and IP QoS; the concepts of DVB over satellite (DVB-S and DVB-RCS) and the new generation DVB-S2 and DVB-RCS2; and IP QoS ...

~~Satellite Networking: Principles and Protocols, 2nd Edition~~

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Computer Networking : Principles, Protocols and Practice, Release techniques allow to create point-to-point links while radio-based techniques, depending on the directionality of the antennas, can be used to build networks containing devices spread over a small geographical area.

~~Computer Networking | Principles, Protocols and Practice~~

Sun, Z (2006) Satellite Networking: Principles and Protocols Satellite Networking: Principles and Protocols. pp. 1-342.. Full text not available from this repository. Abstract. Satellite networking is an exciting and expanding field that has evolved significantly since the launch of the first telecommunications satellite, from telephone and broadcast to broadband ATM and Internet.

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Introduces the basics of ATM and internet protocols, and characteristics of satellite networks and internetworking between satellite and terrestrial networks Discusses the real-time protocols...

~~Satellite Networking: Principles and Protocols - Zhili Sun~~

introduction to the methods for computing metrics for satellite network modeling. Satellite communications are examined, including satellite links, communication protocols, and distributed multiple access schemes, such as time division, code division, and frequency division. This book focuses on ways in which DTN might make terrestrial communication and observation via earth orbiting satellites less expensive and more robust. The fundamental concepts and analysis of the Ring Road Architecture are explored. Unique analyses on the motivating factors of using Inter-Satellite Links (ISL) to form networks in disruptive environments in space are discussed. This book explores the limits of larger and complex DTNs as the number of satellites increase and different orbital formations become possible. As satellite networks become larger in upcoming years this book provides a guide for readers to stay informed about standard protocols such as DTN that will allow seamless interoperation, cost reduction, and risk mitigation.

~~Satellite Networking: Principles and Protocols | Zhili Sun~~

Get this from a library! Satellite networking | principles and protocols. (Zhili Sun) -- "This book provides up to date coverage of the basics of ATM and internet protocols, and characteristics of satellite networks and internetworking between satellite and terrestrial networksSatellite ...

This book provides up to date coverage of the basics of ATM and internet protocols, and characteristics of satellite networks and internetworking between satellite and terrestrial networks Satellite Networking: Principles and Protocols, Second Edition provides up to date information of the original topics in satellite networking and protocols focusing on Internet Protocols (IP) over satellites, broadband over satellites, next generation IP (IPv6) over satellites, new generation of DVB-S/S2 and DVB-RCS next generations and new services and applications. It also includes some analytical techniques for evaluation of end to end IP performance and QoS over satellite, reflecting the recent convergence of telecommunication, Internet, broadcasting and mobile networks. Topics new to this edition: Internetworking with MANET, DVB-S/S2 and DVB-RCS/RCS2 (including TCP/IP over DVB-S/RCS), recent developments in broadband satellite systems, convergence of services and network technologies (including Internet, telecom, mobile, TV, etc.), radio resource management, PPP, I-PEP, SCPS, traffic modelling and engineering with analysis and examples, and future developments of satellite networking. Provides up to date coverage of the basics of ATM and Internet protocols, and characteristics of satellite networks and internetworking between satellite and terrestrial networks (e.g. mobile ad hoc networks), including coverage of new services and applications (e.g. Internet, telecom, mobile and TV) Discusses the real-time protocols including RTP, RTCP and SIP for real-time applications such as VoIP and MMC, and explains TCP/IP over satellite and evolution of IPv6 over satellite and beyond

Satellite networking is an exciting and expanding field that has evolved significantly since the launch of the first telecommunications satellite, from telephone and broadcast to broadband ATM and Internet. With increasing bandwidth and mobility demands on the horizon, satellites have become an integral part of the Global Network Infrastructure (GNI). Satellite Networking: Principles and Protocols provides a balanced coverage of satellite topics from a network point of view, focusing on network aspects, services and applications, quality of service (QoS) and principles and protocols. Introduces the basics of ATM and internet protocols, and characteristics of satellite networks and internetworking between satellite and terrestrial networks Discusses the real-time protocols including RTP, RTCP and SIP for real-time applications such as VoIP and MMC Coverage of new services and applications, internet traffic engineering and MPLS Examines IPv6 over satellite using tunnelling and translation techniques, evolution of earth stations, user terminals and network protocols, and development of satellite networking Includes a Companion Website featuring: Solutions manual, and electronic versions of the figures This text is essential reading for senior undergraduates, postgraduates, and researchers in the fields of satellites, communications and networks. It will also have instant appeal to engineers, managers and operators in these fields.

This cutting-edge resource provides a comprehensive treatment of applying delay-tolerant networking (DTN) principles to satellite-based network communications. Detailed models and analytical tools are used to evaluate performance and provide guidance in the field. This book presents the state-of-the-art in existing on-board and ground technologies that support satellite applications, such as communications protocols, algorithms, and security procedures. Readers gain key insight into the fundamental concepts of DTN applied to satellite networks (DTNs) and case studies are provided. This book presents an authoritative introduction to the methods for computing metrics for satellite network modeling. Satellite communications are examined, including satellite links, communication protocols, and distributed multiple access schemes, such as time division, code division, and frequency division. This book focuses on ways in which DTN might make terrestrial communication and observation via earth orbiting satellites less expensive and more robust. The fundamental concepts and analysis of the Ring Road Architecture are explored. Unique analyses on the motivating factors of using Inter-Satellite Links (ISL) to form networks in disruptive environments in space are discussed. This book explores the limits of larger and complex DTNs as the number of satellites increase and different orbital formations become possible. As satellite networks become larger in upcoming years this book provides a guide for readers to stay informed about standard protocols such as DTN that will allow seamless interoperation, cost reduction, and risk mitigation.

The revised and updated sixth edition of em style="font-size: 10pt; font-family: serif;">Satellite Communications Systems contains information on the most recent advances related to satellite communications systems, technologies, network architectures and new requirements of services and applications. The authors - noted experts on the topic - cover the state-of-the-art satellite communication systems and technologies and examine the relevant topics concerning communication and network technologies, concepts, techniques and algorithms. New to this edition is information on internetworking with the broadband satellite systems, more intensive coverage of Ka band technologies, GEO high throughput satellite (HTS), LEO constellations and the potential to support the current new broadband Internet services as well as future developments for global information infrastructure. The authors offer details on digital communication systems and broadband networks in order to provide high-level researchers and professional engineers an authoritative reference. The companion website provides slides for instructors to teach and for students to learn. In addition, the book is designed in a user-friendly format.

This book contains a selection of papers presented at a Symposium organized under the aegis of COST Telecommunications Action 285. The main objective of the Action is to enhance existing modeling and simulation tools and to develop new tools for research in emerging multi-service telecommunication networks in the areas of model performance improvement, multilayer traffic modeling, and the important issue of evaluation and validation of the new modeling tools. The studies related to the activities above are carried out by members of the Action Group with contributions from invited experts/scientists from non-COST countries, academia and industry (within and outside Europe). The book is a collection of important aspects of study results achieved by this distinguished group of experts/scientists from Europe and the US. The book is divided into the following six areas: - Multilayer Modeling - Wireless and Sensor Networks - Verification and Validation - High Throughput Systems - Traffic - Applications of Simulation A useful reference work for academic researchers and practitioners, this book is the third in a series of works focusing on modeling and simulation methods, techniques, and tools in telecommunications. Previous works in this series are: Modeling and Simulation Tools for Emerging Telecommunications Networks: Needs, Trends, Challenges and Solutions, by A. Nejat Ince and Ercan Topuz (editors), Springer, 2006, 510 pages, ISBN: 978-0-387-32921-5 Modeling and Simulation Environment for Satellite and Terrestrial Communications Networks, by A. Nejat Ince (Editor), Springer, 2004, 424 pages, ISBN: 978-0-7923-7547-0

This book constitutes the proceedings of the International Conference on Personal Satellite Services (PSATS 2009) in Rome, Italy in March 2009. The 17 papers papers demonstrate recent advances in Internet applications over satellites, satellites technologies, and future satellite location-based systems.

Satellite communication systems are now a major part of most telecommunications networks as well as our everyday lives through mobile personal communication systems and broadcast television. A sound understanding of such systems is therefore important for a wide range of system designers, engineers and users. This book provides a comprehensive review of some applications that have driven this growth. It analyzes various aspects of Satellite Communications from Antenna design, Real Time applications, Quality of Service (QoS), Atmospheric effects, Hybrid Satellite-Terrestrial Networks, Sensor Networks and High Capacity Satellite Links. It is the desire of the authors that the topics selected for the book can give the reader an overview of the current trends in Satellite Systems, and also an in depth analysis of the technical aspects of each one of them.

This book discusses global mobile satellite communications (GMSC) for maritime, land (road and rail), and aeronautical applications. It covers how these enable connections between moving objects such as ships, road and rail vehicles and aircrafts on one hand, and ground telecommunications subscribers through the medium of communications satellites, ground earth stations, Terrestrial Telecommunication Networks (TTN), Internet Service Providers (ISP) and other wireless and landline telecommunications providers. The new edition covers new developments and initiatives that have resulted in land and aeronautical applications and the introduction of new satellite constellations in non-geostationary orbits and projects of new hybrid satellite constellations. The book presents current GMSC trends, mobile system concepts and network architecture using a simple mode of style with understandable technical information, characteristics, graphics, illustrations and mathematics equations. It represents telecommunications technique and technology, which can be useful for all technical staff on vessels at sea and rivers, on all types of land vehicles, on planes, on off shore constructions and for everyone possessing satellite communications handset phones. The first edition of Global Mobile Satellite Communications (Springer, 2005) was split into two books for the second edition - one on applications and one on theory. This book presents global mobile satellite communications applications.

This book discusses current theory regarding global mobile satellite communications (GMSC) for maritime, land (road and rail), and aeronautical applications. It covers how these can enable connections between moving objects such as ships, road and rail vehicles and aircrafts on one hand, and on the other ground telecommunications subscribers through the medium of communications satellites, ground earth stations, Terrestrial Telecommunication Networks (TTN), Internet Service Providers (ISP) and other wireless and landline telecommunications providers. This new edition covers new developments and initiatives that have resulted in land and aeronautical applications and the introduction of new satellite constellations in non-geostationary orbits and projects of new hybrid satellite constellations. The book presents current GMSC trends, mobile system concepts and network architecture using a simple mode of style with understandable technical information, characteristics, graphics, illustrations and mathematics equations. The first edition of Global Mobile Satellite Communications (Springer, 2005) was split into two books for the second edition-one on applications and one on theory. This book presents global mobile satellite communications theory.

How can cognition, a concept traditionally associated with the human brain, be applied to satellite systems? For the first time, cognitive system meanings and models are applied to the uncertain environmental processes of satellite systems. The authors of this book go beyond defining 'cognitive satellite systems' to design a cognitive satellite communication system architecture with satellite-to-ground coordination, which has uses in emergency response spacecraft and prediction technology.In this book, the optimal utilization of cognitive satellite system resources is discussed in four aspects:

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