Satellite Networking: Principles and Protocols

By Zhili Sun

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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, PEP, 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

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Satellite Networking: Principles and Protocols By Zhili Sun Bibliography

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Editorial Review

From the Back Cover

This book provides up to date coverage of the fundamental principles and protocols for satellite networking, including satellite orbits and networking concepts, satellite internetworking with terrestrial networks, B-ISDN and Internet protocols, DVB-S/S2, DVB-RCS/RCS2, satellite-related internetworking issues, performance enhancement protocol for satellites and future Internet protocols over satellites.

Satellite networking has evolved significantly since the first telecommunications satellite, from telephone and broadcast to broadband and Internet networks. This evolution is also reflected in research and development, including the recent studies of onboard processing, onboard switching and onboard IP routing. There are also continuous research in satellite communications and networks, including resource management, security and quality of service, multicast, video conference and broadband satellite access to the Internet. Additionally, there has also been the development of new generation standards such as DVB-S2, DVB-RCS2 and IPv6networks.

This book will enable the reader to understand the seamless integration between satellite and terrestrial networks and to achieve a common understanding of different network protocols and technologies, and the convergence of future network protocols, technologies, services and applications as well as user terminals. Topics new to this edition include: 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.), traffic modelling and engineering and future developments of satellite networking.

- Introduces satellite communications networks, broadband networks, broadcasting and Internet networks.
- Explores technology developments from circuit to packet switching networks
- Examines concepts protocol reference models and standards, with a focus on satellite-specific issues on networking
- Discusses Internet protocol (IP) over satellite, TCP enhancement over satellite and DVB over satellite (DVB-S/S1 and DVB-RCS/RSC2)
- Provides an introduction to IPv6, the next generation Internet over satellite and network convergence
- Includes a companion website containing electronic versions of the figures (www.wiley.com//legacy/wileychi/sun/)

Users Review

From reader reviews:

David Tillery:

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