

# Satellite Networking Principles And Protocols

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focuses on several aspects of wireless ad hoc networks particularly algorithmic methods and distributed computing with mobility and computation capability this book provides the crucial building foundation for the design and construction of the future generation of ad hoc networks

this book introduces the reader to the principles used in the construction of a large range of modern data communication protocols the approach we take is rather a formal one primarily based on descriptions of protocols in the notation of csp this not only enables us to describe protocols in a concise manner but also to reason about many of their interesting properties and formally to prove certain aspects of their correctness with respect to appropriate specifications only after considering the main principles do we go on to consider actual protocols where these principles are exploited this is a completely new edition of a book which was first published in 1994 where the main focus of many international efforts to develop data communication systems was on osi open systems interconnection the standardised architecture for communication systems developed within the international organisation for standardization iso in the intervening 13 years many of the specific protocols developed as part of the osi initiative have fallen into disuse however the terms and concepts introduced in the osi reference model are still essential for a systematic and consistent analysis of data communication systems and osi terms are therefore used throughout there are three significant changes in this second edition of the book which particularly reflect recent developments in computer networks and distributed systems

the use of distributed algorithms offers the prospect of great advances in computing speed this book provides a clear practical and up to date guide to distributed algorithms and protocols in the area of control much of the material has been heretofore unavailable in english each chapter considers a specific aspect of control with an analysis of the problem a description of the algorithm for solving it and proofs of correctness chapters can be studied independently to find solutions to particular problems

this best selling conceptual introduction to tcp ip internetworking protocols interweaves a clear discussion of fundamentals with the latest technologies leading author doug comer covers layering and shows how all protocols in the tcp ip suite fit into the five layer model with a new focus on cidr addressing this revision addresses mpls and ip switching technology traffic scheduling voip explicit congestion notification ecn and selective acknowledgement sack includes coverage of voice and video over ip rtp ip coverage a discussion of routing architectures examination of internet application services such as domain name system dns electronic mail smtp mime file transfer and access ftp tftp nfs remote login telnet rlogin and network management snmp mib ans i a description of mobile ip and private network interconnections such as nat and vpn the new edition includes updates to every chapter updated examples a new chapter on mpls and ip switching technology and an expanded tcp description that features explicit congestion notification ecn and selective acknowledgement sack for network and web designers implementers and administrators

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