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this is a practical introduction to the key computing concepts of networks and communications suitable for a first year undergraduate or industrial course it provides the foundational knowledge on which to build a fully developed understanding of modern communications methodologies techniques and standards it will also be a useful professional reference companion the book begins with a general introduction to data communications and the options commonly open to the system designer it then provides overviews of the key areas in which design decisions must be made communication media interface standards network architectures modems and multiplexers network topologies switching and access control local area

networks wide area networks performance software issues security and implementation as a second edition of an established text the book has been thoroughly revised and improved but retains the strengths of the first edition in its clear and well illustrated exposition it includes current developments in standards and architecture including atm b isdn snmp tcp ip and other state of the art features of the computer communications world in its first edition the book was an authoritative textbook and personal reference for industry in this new edition it should be even more essential for all with a need for an accessible modern technical introduction to computer communications and networks suitable for a practically orientated computer science course at degree level or for an introductory industrial course

the book should serve as a text for a university graduate course or for an advanced undergraduate course on neural networks in engineering and computer science departments it should also serve as a self study course for engineers and computer scientists in the industry covering major neural network approaches and architectures with the theories this text presents detailed case studies for each of the approaches accompanied with complete computer codes and the corresponding computed results the case studies are designed to allow easy comparison of network performance to illustrate strengths and weaknesses of the different networks

focused on fundamental concepts and practical applications this book provides a strong foundation in the principles and terminology of computer networking and internet technology this thoroughly revised second edition incorporating some of the latest technical features in networking is suitable for introductory one semester courses for undergraduate students of computer science and engineering electronics and telecommunication engineering information technology as well as students of computer applications bca and mca this text begins with an overview of computer networking and a discussion on data communication then it proceeds to explain how computer networks such as local area networks lans and wide area networks wans work and how internetworking is implemented besides the book provides a description of the internet and tcp ip protocol with the prolific growth of networking network management and security has become an increasingly important part of the academic curriculum this topic has been adequately dealt with in a separate chapter the practical aspects of networking listing the essential requirements needed for actually setting up a computer network are thoroughly explained in the final chapter of the book what is new in the second edition wireless lan in chapter 4 api and socket programming and end to end protocol in chapter 7 remote procedure call rpc protocol in chapter 8 dynamic host configuration protocol error reporting by icmp virtual private network vpn in chapter 9 network address translation nat an appendix dealing with telephone networking wireless networking cellular networking and satellite and telemetry communication has been included to meet the requirements of the students

the best selling distributed sensor networks became the definitive guide to understanding this far reaching technology preserving the excellence and accessibility of its predecessor distributed sensor networks second edition once again provides all the fundamentals and applications in one complete self contained source ideal as a tutorial for students or as research material for engineers the book gives readers up to date practical insight on all aspects of the field revised and expanded this second edition incorporates contributions from many veterans of the darpa iso sensit program as well as new material from distinguished researchers in the field image and sensor signal processing focuses on software issues and the history and

future of sensor networks the book also covers information fusion and power management readers of this book may also be interested in distributed sensor networks second edition sensor networking and applications isbn 9781439862872

this book is the proceedings of a workshop which examined issues involved in the design and implementation of protocols for high speed networks the emphasis of the book is on protocol implementation with a large number of papers addressing this important topic other topics addressed include evaluation of congestion flow control techniques that have been proposed for high speed networks new routing techniques and the investigation of protocols that are being designed to support high speed networking at the transport layer and at the media access control layer of the open systems interconnection network model

this book provides a comprehensive yet easy coverage of ad hoc and sensor networks and fills the gap of existing literature in this growing field it emphasizes that there is a major interdependence among various layers of the network protocol stack contrary to wired or even one hop cellular networks the lack of a fixed infrastructure the inherent mobility the wireless channel and the underlying routing mechanism by ad hoc and sensor networks introduce a number of technological challenges that are difficult to address within the boundaries of a single protocol layer all existing textbooks on the subject often focus on a specific aspect of the technology and fail to provide critical insights on cross layer interdependencies to fully understand these intriguing networks one need to grasp specific solutions individually and also the many interdependencies and cross layer interactions

a systems analysis approach to enterprise network design master techniques for checking the health of an existing network to develop a baseline for measuring performance of a new network design explore solutions for meeting qos requirements including atm traffic management ietf controlled load and guaranteed services ip multicast and advanced switching queuing and routing algorithms develop network designs that provide the high bandwidth and low delay required for real time applications such as multimedia distance learning and videoconferencing identify the advantages and disadvantages of various switching and routing protocols including transparent bridging inter switch link isl ieee 802 1q igrp eigrp ospf and bgp4 effectively incorporate new technologies into enterprise network designs including vpns wireless networking and ip telephony top down network design second edition is a practical and comprehensive guide to designing enterprise networks that are reliable secure and manageable using illustrations and real world examples it teaches a systematic method for network design that can be applied to campus lans remote access networks wan links and large scale internetworks you will learn to analyze business and technical requirements examine traffic flow and qos requirements and select protocols and technologies based on performance goals you will also develop an understanding of network performance factors such as network utilization throughput accuracy efficiency delay and jitter several charts and job aids will help you apply a top down approach to network design this second edition has been revised to include new and updated material on wireless networks virtual private networks vpns network security network redundancy modularity in network designs dynamic addressing for ipv4 and ipv6 new network design and management tools ethernet scalability options including 10 gbps ethernet metro ethernet and long reach ethernet and networks that carry voice and data traffic top down network design second edition has a companion website at topdownbook.com which includes updates to the book links to white papers and supplemental information about

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this text covers many different aspects of both wide area and local area networks it goes behind networking jargon to demonstrate why networking protocols have evolved as they have and the need for standardization the text also gives an insight into the challenges which still remain and some of the possibilities for the future

telecommunications primer is a book for knowledge workers part business persons part computer scientists and part engineers who want an up to date understanding of the spectrum of technology that allows information to be created and used everywhere without delay back cover

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