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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 provides a comprehensive introduction to computer networking fundamentals and architectural models it explains core networking concepts network software and reference models with detailed coverage of the physical layer and its operational principles the book explores data link layer design elementary protocols sliding window mechanisms and key implementation topics it further examines the network and transport layers followed by in depth discussion of session presentation and application layers within the osi framework designed for students of computer science information technology and engineering this book offers a structured and clear understanding of layered network architecture and protocol mechanisms essential for modern communication systems

this book results from many years of teaching an upper division course on communication networks in the eecs department at the university of california berkeley it is motivated by the perceived need for an easily accessible textbook that puts emphasis on the core concepts behind current and next generation networks after an overview of how today's internet works and a discussion of the main principles behind its architecture we discuss the key ideas behind ethernet wifi networks routing internetworking and tcp to make the book as self contained as possible brief discussions of probability and markov chain concepts are

included in the appendices this is followed by a brief discussion of mathematical models that provide insight into the operations of network protocols next the main ideas behind the new generation of wireless networks based on lte and the notion of qos are presented a concise discussion of the physical layer technologies underlying various networks is also included finally a sampling of topics is presented that may have significant influence on the future evolution of networks including overlay networks like content delivery and peer to peer networks sensor networks distributed algorithms byzantine agreement source compression sdn and nfv and internet of things

this classic textbook aims to provide a fundamental understanding of the principles that underlie the design of data networks which form the backbone of the modern internet it was developed through classroom use at mit in the 1980s and continues to be used as a textbook in mit classes the present edition also contains detailed high quality solutions to all the end of chapter exercises among its major features the book 1 describes the principles of layered architectures 2 explains the principles of data link control with many examples and insights into distributed algorithms and protocols 3 provides an intuitive coverage of queueing and its applications in delay and performance analysis of networks 4 covers the theory of multiaccess communications and local data networks 5 discusses in depth theoretical and practical aspects of routing and topological design 6 covers the theory of flow control emphasizing issues of congestion and delay in integrated high speed networks

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 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

the handbook of computer networks is the third set of reference books from leading author and professor of management information systems at california state university bakersfield hossein bidgoli the handbook of computer networks is designed to arm researchers practitioners students and managers with in depth understanding of this important and fast growing field in its broadest scope and in an applied and functional framework each volume incorporates state of the art core information and networking topics practical applications and coverage of the emerging issues in the computer networking and data communications fields

annotation this collection of 45 papers from the october 2001 symposium addresses distributed system high performance computing wireless technology dependability and software architecture issues related to networking among the topics are calculation of deadline missing probability in a qos capable cluster interconnect replicated database recovery using multicast communication execution driven simulation of ip router architectures ip storage and the cpu

consumption myth reconfigurable algorithms in view synchrony and performance analysis of a wireless metropolitan area network no index c book news inc

lan installation is at its peak in worldwide business and this book is positioned to assist the beginner each chapter is keyed to a layer of the osi lan model and contains both a basics section and a technical elaboration the second edition is updated to perfect today s market realities and limits coverage to commercial technologies

contains 275 tutorial articles focused on modern telecommunications topics the contents include articles on communication networks source coding and decoding channel coding and decoding modulation and demodulation optical communications satellite communications underwater acoustic communications radio propagation antennas multiuser communications magnetic storage systems and a variety of standards v 1 p v

this book enables networking professionals who design evaluate build and operate computer networks to prepare a complete network design through two processes network analysis where network requirements are gathered from end users and traffic flows are determined and network design where those traffic flows are used to choose networking technologies networking components and the services that the network should provide

designed for current mcps or mcse and networking professionals with at least a year of experience preparing to pass exam 70 221 also a resource for anyone setting up a computer network using windows 2000

a new edition of the authoritative source on x 2 facilities x 1 service x 25 x 28 and x 29 pad protocols internetworking with packet networks and isdn telephone and satellite networks and all x 500 directory applications black updates the x series and the new ccitt x series embellishing and improving the x 200 recommendations and adding explanations of apis and upper level protocols

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valuable basic information on networking covering both novell and non novell products is introduced in this updated edition practical step by step instructions for implementing and managing a network for any size of business are featured along with basic client server architecture and the latest on security and troubleshooting the authors cover recent developments in based applications and broadband connectivity for example to help get you up to speed and make sound networking decisions and not only will you get up and running but you ll also be ready for what s up and coming in the world of networking technologies

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