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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

written by two practicing electrical engineers this second edition

of the bestselling protection of electricity distribution networks offers both practical and theoretical coverage of the technologies from the classical electromechanical relays to the new numerical types which protect equipment on networks and in electrical plants a properly coordinated protection system is vital to ensure that an electricity distribution network can operate within preset requirements for safety for individual items of equipment staff and public and the network overall suitable and reliable equipment should be installed on all circuits and electrical equipment and to do this protective relays are used to initiate the isolation of faulted sections of a network in order to maintain supplies elsewhere on the system this then leads to an improved electricity service with better continuity and quality of supply

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 design resources this book is part of the networking technology series from cisco press which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers

over the years thousands of tools have been developed for debugging tcp ip networks they range from very specialized tools that do one particular task to generalized suites that do just about everything except replace bad ethernet cables even better many of them are absolutely free there s only one problem who has time to track them all down sort through them for the best ones for a particular purpose or figure out how to use them network troubleshooting tools does the work for you by describing the best of the freely available tools for debugging and troubleshooting you can start with a lesser known version of ping that diagnoses connectivity problems or take on a much more comprehensive program like mrtg for graphing traffic through network interfaces there s tkined for mapping and automatically monitoring networks and ethereal for capturing packets and debugging low level problems this book isn t just about the tools available for troubleshooting common network problems it also outlines a systematic approach to network troubleshooting how to document your network so you know how it behaves under normal conditions and how to think about problems when they arise so you can solve them more effectively the topics covered in this book include understanding your network connectivity testing evaluating the path between two network nodes tools for capturing packets tools for network discovery and mapping tools for working with snmp performance monitoring testing application layer protocols software sources if you re involved with network operations this book will save you time money and needless experimentation

java servlets offer a fast powerful portable replacement for cgi scripts this book covers everything one needs to write effective servlets topics include serving dynamic content maintaining state

information session tracking database connectivity using jdbc and applet servlet communication

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windows operating systems and quality of service networking provides an overview of quality of service technologies and how they can be implemented in a windows based system author yoram bernet is a leading authority on quality of service having been one of the main architects of many qos technologies in the ietf and a program manager for qos at microsoft with the rapid increase in network traffic network professionals have been scrambling to add capacity to their networks but new applications such as multimedia keep driving up the demand for network services and network traffic continues to increase quality of service technologies improve this situation by making efficient use of network capacity and giving you the network professional control over how network capacity is allocated to various applications and users this book explains the myriad qos technologies that play a role in a qos enabled network

with a focus on how to implement these technologies within windows

thoroughly updated for currency this book offers a clear presentation of data communications and network fundamentals featuring a wide array of applications the book fully explains concepts and supports them with case studies or descriptions of specific software and other products students learn the protocols of analog and digital signals data compression data integrity data security local area networks asynchronous transfer mode atm and much more the third edition includes important information on the latest developments of the internet

previous edition sold more than 11 000 copies

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

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