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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

now with a new chapter on long distance digital circuits and wireless technologies this book offers a comprehensive self contained tour through the world of networking

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

a complete and in depth introduction to computer networks and networking in this first volume of the handbook of computer networks readers will get a complete overview of the key concepts of computers networks data transmission and digital and optical networks providing a comprehensive examination of computer networks the book is designed for both undergraduate students and professionals working in a variety of computer network dependent industries with input from over 270 experts in the field the text offers an easy to follow progression through each topic and focuses on fields and technologies that have widespread application in the real world

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

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

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

in clear easy to read and understand language this controversial book reveals the full technical details on how researchers and data recovery engineers can build a des cracker it includes design specifications and board schematics as well as full source code for the custom chip

called the most important human invention since fire the internet has rapidly transformed our society for the children of today there has never been a world without the internet it is as much a part of normal life as trips to the library were for their parents readers do not need any special background or experience with the internet to get the full benefit of this book a parent s guide to the internet 2nd edition offers readers fun educational projects to do with their children as well as background information on websites email instant messaging chat

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this successful title explores how conventional telephone systems operate and how digital electronics replace them this introduction also presents an overview to state of the art speech circuits dialing ringing and central office electronics

this book is one of the first to be written for uk lawyers on cyberlaw and contains advice on law and practice for academics students and practitioners in england scotland and wales

a wide ranging and idiosyncratic look at sixty years of politics and film that uncovers how american movies have mirrored and even challenged anxieties and paranoid perceptions embedded in american society since the start of the cold war the first book to take a sweeping look at 60 years of film and analyze them thematically

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

due to increased demand it has become more important than ever for electronic technicians and security management professionals to have a thorough grounded knowledge of the programming installation and functioning of ip addressed electronic security devices guide to networking for physical security systems provides this information with a practical straightforward approach by first providing complete explanations of ip addressing ethernet and wi fi internet connections and how networks operate this book then delves into how these technologies can be used for electronic security device applications with guided tours of common network devices such as dsl adapters routers ip security cameras and detailed explanations of the various types of video compression readers will gain a wealth of technical information that will prepare them for work in the electronic security industry check out our app dewalt mobile pro tm this free app is a construction calculator with integrated reference materials and access to hundreds of additional calculations as add ons to learn more visit dewalt com mobilepro

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