

An Introduction To Computer Networks

Routing, Flow, and Capacity Design in Communication and Computer Networks
Introduction to Computer Networks and Cybersecurity
Software-Defined Networking and Security
Performance Analysis of Queuing and Computer Networks
Computer Networks and the Internet
Introduction to Computer Network
An Introduction to Computer Networking
High Performance Browser Networking
Data Communications and Computer Networks: A Business User's Approach
Computease Networking Essentials
Security for Computer Networks
Introduction to Networks Companion Guide
Networks Learning the Unix Operating System
Multi-Objective Optimization in Computer Networks Using Metaheuristics
Computer Networking Optimization of Computer Networks
Computer Networks Performance Analysis of Computer Networks
Analysis of Computer Networks
Computer Networks Introduction to Data Communications and Computer Networks
Computer Communications and Networks
Computer Networks An Introduction to Computer Networks
COMPUTER NETWORKS An Introduction to Communication Network Analysis
Computer Networks: Pearson New International Edition
The Handbook of Computer Networks
Computer Networks Introduction to Computer Networking
Molecular Imaging: Computer Reconstruction and Practice
Performance Evaluation by Simulation and Analysis with Applications to Computer Networks
Communications and Networking Fundamentals Of Computer Networks
Modeling and Simulation of Computer Networks and Systems
Computer

Networks Understanding TCP/IP A Practical Introduction to Computer Networking and Cybersecurity 2nd Edition

Routing, Flow, and Capacity Design in Communication and Computer Networks

Performance Analysis of Queuing and Computer Networks develops simple models and analytical methods from first principles to evaluate performance metrics of various configurations of computer systems and networks. It presents many concepts and results of probability theory and stochastic processes. After an introduction to queues in computer networks, this self-contained book covers important random variables, such as Pareto and Poisson, that constitute models for arrival and service disciplines. It then deals with the equilibrium $M/M/1/\infty$ queue, which is the simplest queue that is amenable for analysis. Subsequent chapters explore applications of continuous time, state-dependent single Markovian queues, the $M/G/1$ system, and discrete time queues in computer networks. The author then proceeds to study networks of queues with exponential servers and Poisson external arrivals as well as the $G/M/1$ queue and Pareto interarrival times in a $G/M/1$ queue. The last two chapters analyze bursty, self-similar traffic, and fluid flow models and their effects on queues.

Introduction to Computer Networks and Cybersecurity

A handy book for someone just starting with Unix or Linux, and an ideal primer for Mac and PC users of the Internet who need to know a little about Unix on the systems they visit. The most effective introduction to Unix in print, covering Internet usage for email, file transfers, web browsing, and many major and minor updates to help the reader navigate the ever-expanding capabilities of the operating system.

Software-Defined Networking and Security

How to use cryptography to protect data in teleprocessing systems--not only keeping data secret but also authenticating it, preventing alteration, and proving its origin. Approach is pragmatic--principles are illustrated with examples. Describes ciphers, the Data Encryption Standard, ways to use the ciphers, cipher key management schemes, public key ciphers, and how to apply data security measures to electronic funds transfer and teleprocessing.

Performance Analysis of Queuing and Computer Networks

This book covers performance analysis of computer networks, and begins by

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providing the necessary background in probability theory, random variables, and stochastic processes. Queuing theory and simulation are introduced as the major tools analysts have access to. It presents performance analysis on local, metropolitan, and wide area networks, as well as on wireless networks. It concludes with a brief introduction to self-similarity. Designed for a one-semester course for senior-year undergraduates and graduate engineering students, it may also serve as a fingertip reference for engineers developing communication networks, managers involved in systems planning, and researchers and instructors of computer communication networks.

Computer Networks and the Internet

Introduction to Computer Network

The goal of this textbook is to provide enough background into the inner workings of the Internet to allow a novice to understand how the various protocols on the Internet work together to accomplish simple tasks, such as a search. By building an Internet with all the various services a person uses every day, one will gain an appreciation not only of the work that goes on unseen, but also of the choices made by designers to make life easier for the user. Each chapter consists of

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background information on a specific topic or Internet service, and where appropriate a final section on how to configure a Raspberry Pi to provide that service. While mainly meant as an undergraduate textbook for a course on networking or Internet protocols and services, it can also be used by anyone interested in the Internet as a step-by-step guide to building one's own Intranet, or as a reference guide as to how things work on the global Internet

An Introduction to Computer Networking

High Performance Browser Networking

This book gives a broad look at both fundamental networking technology and new areas that support it and use it. It is a concise introduction to the most prominent, recent technological topics in computer networking. Topics include network technology such as wired and wireless networks, enabling technologies such as data centers, software defined networking, cloud and grid computing and applications such as networks on chips, space networking and network security. The accessible writing style and non-mathematical treatment makes this a useful book for the student, network and communications engineer, computer scientist and IT professional.

Data Communications and Computer Networks: A Business User's Approach

Computease

If a network is not secure, how valuable is it? Introduction to Computer Networks and Cybersecurity takes an integrated approach to networking and cybersecurity, highlighting the interconnections so that you quickly understand the complex design issues in modern networks. This full-color book uses a wealth of examples and illustrations to effectively

Networking Essentials

This book is devoted to the most used methodologies for performance evaluation: simulation using specialized software and mathematical modeling. An important part is dedicated to the simulation, particularly in its theoretical framework and the precautions to be taken in the implementation of the experimental procedure. These principles are illustrated by concrete examples achieved through operational simulation languages (OMNeT ++, OPNET). Presented under the complementary approach, the mathematical method is essential for the

simulation. Both methodologies based largely on the theory of probability and statistics in general and particularly Markov processes, a reminder of the basic results is also available.

Security for Computer Networks

Modeling and Simulation of Computer Networks and Systems: Methodologies and Applications introduces you to a broad array of modeling and simulation issues related to computer networks and systems. It focuses on the theories, tools, applications and uses of modeling and simulation in order to effectively optimize networks. It describes methodologies for modeling and simulation of new generations of wireless and mobile networks and cloud and grid computing systems. Drawing upon years of practical experience and using numerous examples and illustrative applications recognized experts in both academia and industry, discuss: Important and emerging topics in computer networks and systems including but not limited to; modeling, simulation, analysis and security of wireless and mobile networks especially as they relate to next generation wireless networks Methodologies, strategies and tools, and strategies needed to build computer networks and systems modeling and simulation from the bottom up Different network performance metrics including, mobility, congestion, quality of service, security and more Modeling and Simulation of Computer Networks and Systems is a must have resource for network architects, engineers and researchers

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who want to gain insight into optimizing network performance through the use of modeling and simulation. Discusses important and emerging topics in computer networks and Systems including but not limited to; modeling, simulation, analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Provides the necessary methodologies, strategies and tools needed to build computer networks and systems modeling and simulation from the bottom up Includes comprehensive review and evaluation of simulation tools and methodologies and different network performance metrics including mobility, congestion, quality of service, security and more

Introduction to Networks Companion Guide

This book provides readers insights into cyber maneuvering or adaptive and intelligent cyber defense. It describes the required models and security supporting functions that enable the analysis of potential threats, detection of attacks, and implementation of countermeasures while expending attacker resources and preserving user experience. This book not only presents significant education-oriented content, but uses advanced content to reveal a blueprint for helping network security professionals design and implement a secure Software-Defined Infrastructure (SDI) for cloud networking environments. These solutions are a less intrusive alternative to security countermeasures taken at the host level and offer centralized control of the distributed network. The concepts, techniques, and

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strategies discussed in this book are ideal for students, educators, and security practitioners looking for a clear and concise text to avant-garde cyber security installations or simply to use as a reference. Hand-on labs and lecture slides are located at <http://virtualnetworksecurity.thothlab.com/>. Features Discusses virtual network security concepts Considers proactive security using moving target defense Reviews attack representation models based on attack graphs and attack trees Examines service function chaining in virtual networks with security considerations Recognizes machine learning and AI in network security

Networks

Balancing the most technical concepts with practical everyday issues, DATABASE COMMUNICATIONS AND COMPUTER NETWORKS, 8e provides thorough coverage of the basic features, operations, and limitations of different types of computer networks--making it the ideal resource for future business managers, computer programmers, system designers, as well as home computer users. Offering a comprehensive introduction to computer networks and data communications, the book includes coverage of the language of computer networks as well as the effects of data communications on business and society. It provides full coverage of wireless technologies, industry convergence, compression techniques, network security, LAN technologies, VoIP, and error detection and correction. The Eighth Edition also offers up-to-the-minute coverage of near field communications,

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updated USB interface, lightning interface, and IEEE 802.11 ac and ad wireless standards, firewall updates, router security problems, the Internet of Things, cloud computing, zero-client workstations, and Internet domain names. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Learning the Unix Operating System

Multi-Objective Optimization in Computer Networks Using Metaheuristics

This book "Communications and Networking" focuses on the issues at the lowest two layers of communications and networking and provides recent research results on some of these issues. In particular, it first introduces recent research results on many important issues at the physical layer and data link layer of communications and networking and then briefly shows some results on some other important topics such as security and the application of wireless networks. In summary, this book covers a wide range of interesting topics of communications and networking. The introductions, data, and references in this book will help the readers know more about this topic and help them explore this exciting and fast-evolving field.

Computer Networking

This book covers the design and optimization of computer networks applying a rigorous optimization methodology, applicable to any network technology. It is organized into two parts. In Part 1 the reader will learn how to model network problems appearing in computer networks as optimization programs, and use optimization theory to give insights on them. Four problem types are addressed systematically – traffic routing, capacity dimensioning, congestion control and topology design. Part 2 targets the design of algorithms that solve network problems like the ones modeled in Part 1. Two main approaches are addressed – gradient-like algorithms inspiring distributed network protocols that dynamically adapt to the network, or cross-layer schemes that coordinate the cooperation among protocols; and those focusing on the design of heuristic algorithms for long term static network design and planning problems. Following a hands-on approach, the reader will have access to a large set of examples in real-life technologies like IP, wireless and optical networks. Implementations of models and algorithms will be available in the open-source Net2Plan tool from which the user will be able to see how the lessons learned take real form in algorithms, and reuse or execute them to obtain numerical solutions. An accompanying link to the author's own Net2plan software enables readers to produce numerical solutions to a multitude of real-life problems in computer networks (www.net2plan.com).

Optimization of Computer Networks

This book is a quantitative text, which focuses on the real issues behind serious modeling and analysis of communications networks. The author covers all the necessary mathematics and theory in order for students to understand the tools that optimize computer networks today. Covers both classical (e.g. queueing theory) and modern (e.g. pricing) aspects of networking Integrates material on communication networks with material on modeling/analyzing and designing such networks Includes a Solution Manual

Computer Networks

Introduction to Networks Companion Guide is the official supplemental textbook for the Introduction to Networks course in the Cisco® Networking Academy® CCNA® Routing and Switching curriculum. The course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, you will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. The Companion Guide is designed as a portable desk reference to use anytime,

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anywhere to reinforce the material from the course and organize your time. The book's features help you focus on important concepts to succeed in this course:

- Chapter Objectives–Review core concepts by answering the focus questions listed at the beginning of each chapter.
- Key Terms–Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter.
- Glossary–Consult the comprehensive Glossary with more than 195 terms.
- Summary of Activities and Labs–Maximize your study time with this complete list of all associated practice exercises at the end of each chapter.
- Check Your Understanding–Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer.

Related Title: Introduction to Networks Lab Manual ISBN-10: 1-58713-312-1 ISBN-13: 978-1-58713-312-1

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- Videos–Watch the videos embedded within the online course.
- Packet Tracer Activities–Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters.
- Hands-on Labs–Work through all 66 course labs and Class Activities that are included in the course and published in the separate Lab Manual. This book is part of the Cisco Networking Academy Series from Cisco Press®. Books in this series support and complement the Cisco Networking Academy curriculum.

Performance Analysis of Computer Networks

Rev. ed. of: Networking / Jeffrey S. Beasley.

Analysis of Computer Networks

Computer Networks

The scientific study of networks, including computer networks, social networks, and biological networks, has received an enormous amount of interest in the last few years. The rise of the Internet and the wide availability of inexpensive computers have made it possible to gather and analyze network data on a large scale, and the development of a variety of new theoretical tools has allowed us to extract new knowledge from many different kinds of networks. The study of networks is broadly interdisciplinary and important developments have occurred in many fields, including mathematics, physics, computer and information sciences, biology, and the social sciences. This book brings together for the first time the most important breakthroughs in each of these fields and presents them in a coherent fashion, highlighting the strong interconnections between work in different areas. Subjects covered include the measurement and structure of networks in many branches of

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science, methods for analyzing network data, including methods developed in physics, statistics, and sociology, the fundamentals of graph theory, computer algorithms, and spectral methods, mathematical models of networks, including random graph models and generative models, and theories of dynamical processes taking place on networks.

Introduction to Data Communications and Computer Networks

AN INTRODUCTION TO COMPUTER NETWORKS is a comprehensive text book which is focused and designed to elaborate the technical contents in the light of TCP/IP reference model exploring both digital and analog data communication. Various communication protocols of different layers are discussed along with their pseudo-code. This book covers the detailed and practical information about the network layer alongwith information about IP including IPV6, OSPF, and internet multicasting. It also covers TCP congestion control and emphasizes on the basic principles of fundamental importance concerning the technology and architecture and provides detailed discussion of leading edge topics of data communication, LAN & Network Layer.

Computer Communications and Networks

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Metaheuristics are widely used to solve important practical combinatorial optimization problems. Many new multicast applications emerging from the Internet-such as TV over the Internet, radio over the Internet, and multipoint video streaming-require reduced bandwidth consumption, end-to-end delay, and packet loss ratio. It is necessary to design an

Computer Networks

The Handbook of Computer Networks is the first single, comprehensive treatment of the subject available. Written by noted author and expert Hossein Bidgoli, this three-volume masterpiece presents an in-depth understanding of computer networks that is broad in scope and practical in application. Each volume covers a wide range of topics with state-of-the-art information, practical applications, and emerging issues. Whether you're an IT manager, researcher, or student, this is the ideal resource on every aspect of networking.

An Introduction to Computer Networks

This book reports the majority of lectures given during the NATO Advanced Study Institute ASI-982440, which was held at the European Scientific Institute of Archamps (ESI, Archamps - France) from November 9 to November 21, 2006. The

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ASI course was structured in two parts, the first was dedicated to individual imaging techniques while the second is the object of this volume and focused on data modelling and processing and on image archiving and distribution. Courses devoted to nuclear medicine and digital imaging techniques are collected in a complementary volume of NATO Science Series entitled "Physics for Medical Imaging Applications" (ISBN 978-1-4020-5650-5). Every year in autumn ESI organises the European School of Medical Physics, which covers a large spectrum of topics ranging from Medical Imaging to Rad-therapy, over a period of five weeks. Thanks to the Cooperative Science and Technology sub-programme of the NATO Science Division, weeks two and three were replaced this year by the ASI course dedicated to "Molecular Imaging from Physical Principles to Computer Reconstruction and Practice". This allowed the participation of experts and students from 20 different countries, with diverse cultural background and professional experience (Africa, America, Asia, and Europe). A further positive outcome of NATO ASI participation is the publication of this book, which contains the lectures series contributed by speakers during the second week of the ASI.

COMPUTER NETWORKS

This textbook presents the mathematical theory and techniques necessary for analyzing and modeling high-performance global networks, such as the Internet. The three main building blocks of high-performance networks are links, switching

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equipment connecting the links together and software employed at the end nodes and intermediate switches. This book provides the basic techniques for modeling and analyzing these last two components. Topics covered include, but are not limited to: Markov chains and queuing analysis, traffic modeling, interconnection networks and switch architectures and buffering strategies.

An Introduction to Communication Network Analysis

Appropriate for Computer Networking or Introduction to Networking courses at both the undergraduate and graduate level in Computer Science, Electrical Engineering, CIS, MIS, and Business Departments. Tanenbaum takes a structured approach to explaining how networks work from the inside out. He starts with an explanation of the physical layer of networking, computer hardware and transmission systems; then works his way up to network applications. Tanenbaum's in-depth application coverage includes email; the domain name system; the World Wide Web (both client- and server-side); and multimedia (including voice over IP, Internet radio video on demand, video conferencing, and streaming media. Each chapter follows a consistent approach: Tanenbaum presents key principles, then illustrates them utilizing real-world example networks that run through the entire book—the Internet, and wireless networks, including Wireless LANs, broadband wireless and Bluetooth. The Fifth Edition includes a chapter devoted exclusively to network security. The textbook is supplemented by

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a Solutions Manual, as well as a Website containing PowerPoint slides, art in various forms, and other tools for instruction, including a protocol simulator whereby students can develop and test their own network protocols. Networking Labs (Instructor bundle) This set of a dozen labs complements the textbook with hands-on exercises to let students explore the Internet protocols in a real-world setting. All the handouts and traces that students need to complete the exercises are included. The exercises run on Windows, Mac and Linux platforms, and may be used for labs, homeworks, and demonstrations. The protocols that are examined include Ethernet, 802.11, IP, ARP, ICMP, DHCP, UDP, TCP, HTTP, DNS and SSL. The labs also build useful skills by making use of popular networking tools including Wireshark, curl and wget, ping, traceroute, and dig. The instructor version of the labs includes solution handouts and source materials.

Computer Networks: Pearson New International Edition

Original textbook (c) October 31, 2011 by Olivier Bonaventure, is licensed under a Creative Commons Attribution (CC BY) license made possible by funding from The Saylor Foundation's Open Textbook Challenge in order to be incorporated into Saylor's collection of open courses available at: <http://www.saylor.org>. Free PDF 282 pages at <https://www.textbookequity.org/bonaventure-computer-networking-principles-protocols-and-practice/> This open textbook aims to fill the gap between the open-source implementations and the open-source network specifications by

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providing a detailed but pedagogical description of the key principles that guide the operation of the Internet. 1 Preface 2 Introduction 3 The application Layer 4 The transport layer 5 The network layer 6 The datalink layer and the Local Area Networks 7 Glossary 8 Bibliography

The Handbook of Computer Networks

Computer Networks, Fourth Edition is the ideal introduction to computer networks. Renowned author, educator, and researcher Andrew S. Tanenbaum has updated his classic best seller to reflect the newest technologies, including 802.11, broadband wireless, ADSL, Bluetooth, gigabit Ethernet, the Web, the wireless Web, streaming audio, IPsec, AES, quantum cryptography, and more. Using real-world examples, Tanenbaum explains how networks work on the inside, from underlying physical layer hardware up through today's most popular network applications.

Computer Networks

Computer Networks: A Systems Approach, Fifth Edition, explores the key principles of computer networking, with examples drawn from the real world of network and protocol design. Using the Internet as the primary example, this best-selling and classic textbook explains various protocols and networking technologies. The

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systems-oriented approach encourages students to think about how individual network components fit into a larger, complex system of interactions. This book has a completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, network security, and network applications such as e-mail and the Web, IP telephony and video streaming, and peer-to-peer file sharing. There is now increased focus on application layer issues where innovative and exciting research and design is currently the center of attention. Other topics include network design and architecture; the ways users can connect to a network; the concepts of switching, routing, and internetworking; end-to-end protocols; congestion control and resource allocation; and end-to-end data. Each chapter includes a problem statement, which introduces issues to be examined; shaded sidebars that elaborate on a topic or introduce a related advanced topic; What's Next? discussions that deal with emerging issues in research, the commercial world, or society; and exercises. This book is written for graduate or upper-division undergraduate classes in computer networking. It will also be useful for industry professionals retraining for network-related assignments, as well as for network practitioners seeking to understand the workings of network protocols and the big picture of networking. Completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, security, and applications Increased focus on application layer issues where innovative and exciting research and design is currently the center of

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attention Free downloadable network simulation software and lab experiments manual available

Introduction to Computer Networking

A clear and comprehensive guide to TCP/IP protocols.

Molecular Imaging: Computer Reconstruction and Practice

Computer communications is one of the most rapidly developing technologies and it is a subject with which everyone in the computer systems profession should be familiar. Computer communications and networks is an introduction to communications technology and system design for practising and aspiring computer professionals. The subject is described from the computer system designer's point of view rather than from the communications engineer's viewpoint. The presentation is suitable for introductory reading as well as for reference. The emphasis is on practical, rather than theoretical, aspects and on technology which will become more important in the future. The majority of the subject matter applies to civil and military communications but some aspects which are unique to military applications have been included where considered significant. Computer communications is a rapidly changing and highly complex

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subject. Sufficient practical knowledge of the subject is not usually gained at university or college but is generally developed over a period of several years by trial and error, attending courses, reading reference books and journals; this book attempts to simplify and speed up the process by bringing together a body of information which is otherwise distributed throughout many books and journals. The information is presented in a framework which makes a wider understanding of the subject possible. Basic knowledge of communications is assumed, a general familiarity with computer systems is anticipated in later chapters, and, where relevant, theory is explained.

Performance Evaluation by Simulation and Analysis with Applications to Computer Networks

On computer networks

Communications and Networking

CD-ROM contains: Example programs and files -- Demonstration version of LanExplorer.

Fundamentals Of Computer Networks

Modeling and Simulation of Computer Networks and Systems

In network design, the gap between theory and practice is woefully broad. This book narrows it, comprehensively and critically examining current network design models and methods. You will learn where mathematical modeling and algorithmic optimization have been under-utilized. At the opposite extreme, you will learn where they tend to fail to contribute to the twin goals of network efficiency and cost-savings. Most of all, you will learn precisely how to tailor theoretical models to make them as useful as possible in practice. Throughout, the authors focus on the traffic demands encountered in the real world of network design. Their generic approach, however, allows problem formulations and solutions to be applied across the board to virtually any type of backbone communication or computer network. For beginners, this book is an excellent introduction. For seasoned professionals, it provides immediate solutions and a strong foundation for further advances in the use of mathematical modeling for network design. Written by leading researchers with a combined 40 years of industrial and academic network design experience. Considers the development of design models for different technologies, including TCP/IP, IDN, MPLS, ATM, SONET/SDH, and WDM. Discusses recent topics such as shortest path routing and fair bandwidth assignment in IP/MPLS networks. Addresses proper multi-layer modeling across network layers using different

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technologies—for example, IP over ATM over SONET, IP over WDM, and IDN over SONET. Covers restoration-oriented design methods that allow recovery from failures of large-capacity transport links and transit nodes. Presents, at the end of each chapter, exercises useful to both students and practitioners.

Computer Networks

The main goal of bringing out this book is to make available To The students a book that contains the subject matter that they need to know. All the concepts are explained in a simple and lucid style and in a compact way. This book begins with an introduction to computer networks, and then necessary aspects of signals are presented. Then all the layers of the OSI and TCP reference models are well explained in depth with necessary diagrams. Other important aspects like "Network Security, WWW, Multimedia, Data Compression", are also covered. Salient features: * Sections are divided thoughtfully keeping the interest and aptitude of the students. * Each chapter ends with a set of questions for students to answer. * Examinations Question Papers are also included at the end of book.

Understanding TCP/IP

A Practical Introduction to Computer Networking and Cybersecurity 2nd Edition

How prepared are you to build fast and efficient web applications? This eloquent book provides what every web developer should know about the network, from fundamental limitations that affect performance to major innovations for building even more powerful browser applications—including HTTP 2.0 and XHR improvements, Server-Sent Events (SSE), WebSocket, and WebRTC. Author Ilya Grigorik, a web performance engineer at Google, demonstrates performance optimization best practices for TCP, UDP, and TLS protocols, and explains unique wireless and mobile network optimization requirements. You'll then dive into performance characteristics of technologies such as HTTP 2.0, client-side network scripting with XHR, real-time streaming with SSE and WebSocket, and P2P communication with WebRTC. Deliver superlative TCP, UDP, and TLS performance
Speed up network performance over 3G/4G mobile networks
Develop fast and energy-efficient mobile applications
Address bottlenecks in HTTP 1.x and other browser protocols
Plan for and deliver the best HTTP 2.0 performance
Enable efficient real-time streaming in the browser
Create efficient peer-to-peer videoconferencing and low-latency applications with real-time WebRTC transports

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