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SIXTH EDITION

Computer Networks and Internets



 Pearson

Douglas E. Comer

Computer Networks And Internets By Comer



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Computer Networks And Internets By Comer:

Computer Networks and Internets Douglas Comer, 2001 Appropriate for introductory computer networking courses at both the undergraduate and graduate level in Computer Science Electrical Engineering CIS MIS and Business Departments Written by a best selling author and leading computer networking authority *Computer Networks and Internets* Third Edition builds a comprehensive picture of the technologies behind Internet applications Ideal for those with little or no background in the subject the text answers the basic question how do computer networks and Internets operate in the broadest sense and now includes an early optional introduction to network programming and applications The text provides a comprehensive self contained tour through all of networking from the lowest levels of data transmission and wiring to the highest levels of application software explaining how underlying technologies provide services and how Internet applications use those services At each level it shows how the facilities and services provided by lower levels are used and extended in the next level For instructors who want to emphasize Internet technologies and applications the book provides substantial sections on Internetworking and Network Applications that can serve as a focus for a course An accompanying multimedia CD ROM and Website provide opportunities for a variety of hands on experiences *Computer Networks and Internets* Douglas Comer, 1999 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 *Computer Networks and Internets* Douglas E. Comer, 2011-11-21 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book *Computer Networks and Internets* is appropriate for all introductory to intermediate courses in computer networking the Internet or Internet applications readers need no background in networking operating systems or advanced mathematics Leading networking authority Douglas Comer presents a wide ranging self contained tour of the concepts principles and technologies that enable today s Internet to support applications ranging from web browsing to telephony and multimedia This Fifth Edition has been thoroughly reorganized revised and updated it includes extensive new coverage of topics ranging from wireless protocols to network performance while reducing or eliminating coverage of older protocols and technologies Comer begins by illuminating the applications and facilities offered by today s Internet Next he systematically introduces the underlying network technologies and protocols that make them possible low level data communications packet switching LAN and WAN technologies and Internet protocols such as TCP IP UDP and IPv6 With these concepts and technologies established he introduces several of the most important contemporary issues faced by network implementers and managers including quality of service Internet telephony multimedia network security and network management Comer has carefully designed this book to support both top down and bottom up teaching approaches Students need no background in operating systems and no sophisticated math Comer relies throughout on figures drawings examples and analogies not mathematical proofs *Computer Networks and*

Internets, Global Edition Douglas E Comer, 2016-02-26 Appropriate for all introductory to intermediate courses in computer networking the Internet or Internet applications students need no background in networking operating systems or advanced mathematics Leading networking authority Douglas Comer presents a wide ranging self contained tour of the concepts principles and technologies that enable today s Internet to support applications ranging from web browsing to telephony and multimedia Comer begins by illuminating the applications and facilities offered by today s Internet Next he systematically introduces the underlying network technologies and protocols that make them possible With these concepts and technologies established he introduces several of the most important contemporary issues faced by network implementers and managers including quality of service Internet telephony multimedia network security and network management Comer has carefully designed this book to support both top down and bottom up teaching approaches Students need no background in operating systems and no sophisticated math Comer relies throughout on figures drawings examples and analogies not mathematical proofs The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed The Internet Book Douglas E. Comer, 2018-09-03 The Internet Book Fifth Edition explains how computers communicate what the Internet is how the Internet works and what services the Internet offers It is designed for readers who do not have a strong technical background early chapters clearly explain the terminology and concepts needed to understand all the services It helps the reader to understand the technology behind the Internet appreciate how the Internet can be used and discover why people find it so exciting In addition it explains the origins of the Internet and shows the reader how rapidly it has grown It also provides information on how to avoid scams and exaggerated marketing claims The first section of the book introduces communication system concepts and terminology The second section reviews the history of the Internet and its incredible growth It documents the rate at which the digital revolution occurred and provides background that will help readers appreciate the significance of the underlying design The third section describes basic Internet technology and capabilities It examines how Internet hardware is organized and how software provides communication This section provides the foundation for later chapters and will help readers ask good questions and make better decisions when salespeople offer Internet products and services The final section describes application services currently available on the Internet For each service the book explains both what the service offers and how the service works About the Author Dr Douglas Comer is a Distinguished Professor at Purdue University in the departments of Computer Science and Electrical and Computer Engineering He has created and enjoys teaching undergraduate and graduate courses on computer networks and Internets

operating systems computer architecture and computer software One of the researchers who contributed to the Internet as it was being formed in the late 1970s and 1980s he has served as a member of the Internet Architecture Board the group responsible for guiding the Internet's development Prof Comer is an internationally recognized expert on computer networking the TCP/IP protocols and the Internet who presents lectures to a wide range of audiences In addition to research articles he has written a series of textbooks that describe the technical details of the Internet Prof Comer's books have been translated into many languages and are used in industry as well as computer science engineering and business departments around the world Prof Comer joined the Internet project in the late 1970s and has had a high speed Internet connection to his home since 1981 He wrote this book as a response to everyone who has asked him for an explanation of the Internet that is both technically correct and easily understood by anyone An Internet enthusiast Comer displays INTRNET on the license plate of his car

Computer Networks and Internets Douglas Comer,2009 Written by a best selling author and leading computer networking authority this title builds a comprehensive picture of the technologies behind Internet applications

Hands-on Networking with Internet Technologies Douglas E. Comer,W. David Laverell,2002 This clearly written and logically organized book allows the reader to gain a deeper understanding of computer networks and internets by asserting that the best way to learn is by doing it allows for hands on experience with a real network The book is organized into six sections that each consider a hardware platform from the most basic free standing single computer to the most advanced powerful and expensive facilities and outlines experiments that can be carried out using these platforms Through experiments readers learn that interconnecting hardware configuring software measuring performance observing protocols in action and creating client server programs over a network all help sharpen understanding

The Internet Book Douglas Comer,2007 Comer one of the architects of the Internet in the late 1970s explains in clear non technical terms what the Internet is how it works how it came to be and what's in store for the future Part 1 covers fundamental concepts such as digital and analog communication introduces packet switching and explains the LAN technologies that are used in most businesses Part 2 offers a short history of the Internet research project and how the Internet grew from the ARPANET backbone into today's global information infrastructure Part 3 explains how the Internet works and discusses the two fundamental protocols used by all services IP Internet Protocol and TCP Transmission Control Protocol Part 4 gives an overview of the many services available on the Internet such as browsers search engines email bulletin boards file transfer remote desktops wikis blogs and audio and video communication In each case the text explains how the service operates and how it uses facilities in the underlying system

Computer Networks and Internets Comer Douglas E,2002

Internetworking with TCP/IP. Douglas Comer,2014 An internationally best selling conceptual introduction to the TCP/IP protocols and Internetworking this book interweaves a clear discussion of fundamentals and scientific principles with details and examples drawn from the latest technologies Leading author Douglas Comer covers layering and packet formats for all

the Internet protocols including TCP IPv4 IPv6 DHCP and DNS In addition the text explains new trends in Internet systems including packet classification Software Defined Networking SDN and mesh protocols used in The Internet of Things The text is appropriate for individuals interested in learning more about TCP IP protocols Internet architecture and current networking technologies as well as engineers who build network systems It is suitable for junior to graduate level courses in Computer Networks Data Networks Network Protocols and Internetworking *Computer Networks and Internets* Comer,1999-06-01 [Computer Networks and Internets with Internet Applications, 4/e \(With CD\)](#) Douglas Comer,2004

[Essentials of Computer Architecture](#) Douglas Comer,2017-01-06 This easy to read textbook provides an introduction to computer architecture while focusing on the essential aspects of hardware that programmers need to know The topics are explained from a programmer s point of view and the text emphasizes consequences for programmers Divided in five parts the book covers the basics of digital logic gates and data paths as well as the three primary aspects of architecture processors memories and I O systems The book also covers advanced topics of parallelism pipelining power and energy and performance A hands on lab is also included The second edition contains three new chapters as well as changes and updates throughout *High-speed Networks and Internets* William Stallings,2002 William Stallings offers the most comprehensive technical book to address a wide range of design issues of high speed TCP IP and ATM networks in print to date High Speed Networks and Internets presents both the professional and advanced student an up to date survey of key issues The Companion Website and the author s Web page offer unmatched support for students and instructors The book features the prominent use of figures and tables and an up to date bibliography In this second edition this award winning and best selling author steps up to the leading edge of integrated coverage of key issues in the design of high speed TCP IP and ATM networks to include the following topics Unified coverage of integrated and differentiated services Up to date and comprehensive coverage of TCP performance Thorough coverage of next generation Internet protocols including RSVP MPLS RTP and the use of Ipv6 Unified treatment of congestion in data networks packet switching frame relay ATM networks and IP based internets Broad and detailed coverage of routing unicast and multicast Comprehensive coverage of ATM basic technology and the newest traffic control standards Solid easy to absorb mathematical background enabling understanding of the issues related to high speed network performance and design Up to date treatment of gigabit Ethernet The first treatment of self similar traffic for performance assessment in a textbook on networks Explains the mathematics behind self similar traffic and shows the performance implications and how to estimate performance parameters Up to date coverage of compression A comprehensive survey Coverage of gigabit networks Gigabit design issues permeate the book *1001 Programming Resources* Edward J. Renehan,Edward Renehan,1996 1001 Programming Resources features key Web sites programmers must visit and shows how to access product descriptions and detailed documentation in minutes Download sample programs in C C Java Perl Visual Basic and more The CD ROM contains programming tools Java and Perl an

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