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## KEY=BY - CURTIS HALEY

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### CRYPTOGRAPHY AND NETWORK SECURITY

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### INTELLIGENT TRANSPORT SYSTEMS

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*PHI Learning Pvt. Ltd. Over the time, Intelligent Transport System (ITS) has become important for any country not only for traffic congestion management, but also for modern infrastructure and safety. Since there is a dearth of literature on this subject, this book attempts to fill the gap and provides a holistic work on ITS encompassing theory, examples and case studies on various facets in both road and railway sectors. The basic principles of various technologies used for ITS have been explained in such a manner that students from non-technical background can also comprehend them with ease. It also discusses the emerging technologies such as autonomous vehicles, electric vehicles, cooperative vehicle highway system, automated highway systems, 5G mobile technology, etc. Considering the need of huge funds required for ITS implementation, the text provides various funding options available. Conclusively, it is a unique book that contains all aspects of ITS which a student of engineering is expected to know. The book is intended as a text for postgraduate students of transportation engineering and as a reference book for professionals such as transport planners, town planners, traffic engineers, transit operators and consultants. Key Features, • ITS architecture with a number of case studies based on real-life situation • Concept of smart city, importance of advanced transport system, and applications of ITS technologies in smart cities • ITS in Rail sector—intelligent trains, train control systems and intelligent train maintenance practices • Chapter-end questions for practice and bibliography*

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### FAST AND SCALABLE CLOUD DATA MANAGEMENT

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*Springer Nature The unprecedented scale at which data is both produced and consumed today has generated a large demand for scalable data management solutions facilitating fast access from all over the world. As one consequence, a plethora of non-relational, distributed NoSQL database systems have risen in recent years and today's data management system landscape has thus become somewhat hard to overlook. As another consequence, complex polyglot designs and elaborate schemes for data distribution and delivery have become the norm for building applications that connect users and organizations across the globe – but choosing the right combination of systems for a given use case has become increasingly difficult as well. To help practitioners stay on top of that challenge, this book presents a comprehensive overview and classification of the current system landscape in cloud data management as well as a survey of the state-of-the-art approaches for efficient data distribution and delivery to end-user devices. The topics covered thus range from NoSQL storage systems and polyglot architectures (backend) over distributed transactions and Web caching (network) to data access and rendering performance in the client (end-user). By distinguishing popular data management systems by data model, consistency guarantees, and other dimensions of interest, this book provides an abstract framework for reasoning about the overall design space and the individual positions claimed by each of the systems therein. Building on this classification, this book further presents an application-driven decision guidance tool that breaks the process of choosing a set of viable system candidates for a given application scenario down into a straightforward decision tree.*

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### FUNDAMENTALS OF INTERNET OF THINGS

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*CRC Press The Internet of Things (IoT) networks have revolutionized the world and have innumerable real-time applications on automation. A few examples include driverless cars, remote monitoring of the elderly, remote order of tea or coffee of your choice from a vending machine, and home/industrial automation amongst others. Fundamentals of Internet of Things build the foundations of IoT networks by leveraging the relevant concepts from signal processing, communications, net-works, and machine learning. The book covers two fundamental components of IoT networks, namely, the Internet and Things. In particular, the book focuses on networking concepts, protocols, clustering, data fusion, localization, energy harvesting, control optimization, data analytics, fog computing, privacy, and security including elliptic curve cryptography and blockchain technology. Most of the existing books are theoretical and without many mathematical details and examples. In addition, some essential topics of the IoT networks are also missing in the*

existing books. Features: • The book covers cutting-edge research topics • Provides mathematical understanding of the topics in addition to relevant theory and insights • Includes illustrations with hand-solved numerical examples for visualization of the theory and testing of understanding • Lucid and crisp explanation to lessen the study time of the reader The book is a complete package of the fundamentals of IoT networks and is suitable for graduate-level students and researchers who want to dive into the world of IoT networks.

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## **DATA COMMUNICATIONS AND NETWORKING**

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McGraw-Hill Education *Data Communications and Networking* is designed to help students understand the basics of data communications and networking, and the protocols used in the Internet in particular by using the protocol layering of the Internet and TCP/IP protocol suite. Technologies related to data communication and networking may be the fastest growing in today's culture. The appearance of some new social networking applications is a testimony to this claim. In this Internet-oriented society, specialists need to be trained to run and manage the Internet, part of the Internet, or an organization's network that is connected to the Internet. As both the number and types of students are increasing, it is essential to have a textbook that provides coverage of the latest advances, while presenting the material in a way that is accessible to students with little or no background in the field. Using a bottom-up approach, *Data Communications and Networking* presents this highly technical subject matter without relying on complex formulas by using a strong pedagogical approach supported by more than 830 figures. Now in its Fifth Edition, this textbook brings the beginning student right to the forefront of the latest advances in the field, while presenting the fundamentals in a clear, straightforward manner. Students will find better coverage, improved figures and better explanations on cutting-edge material. The "bottom-up" approach allows instructors to cover the material in one course, rather than having separate courses on data communications and networking.

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## **COMPUTER NETWORKS**

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McGraw-Hill Higher Education

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## **INTRODUCTION TO CRYPTOGRAPHY AND NETWORK SECURITY**

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"A textbook for beginners in security. In this new first edition, well-known author Behrouz Forouzan uses his accessible writing style and visual approach to simplify the difficult concepts of cryptography and network security. This edition also provides a website that includes Powerpoint files as well as instructor and students solutions manuals. Forouzan presents difficult security topics from the ground up. A gentle introduction to the fundamentals of number theory is provided in the opening chapters, paving the way for the student to move on to more complex security and cryptography topics. Difficult math concepts are organized in appendices at the end of each chapter so that students can first learn the principles, then apply the technical background. Hundreds of examples, as well as fully coded programs, round out a practical, hands-on approach which encourages students to test the material they are learning."-- Publisher's website.

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## **COMMUNICATION NETWORKS**

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### **FUNDAMENTAL CONCEPTS AND KEY ARCHITECTURES**

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. This book is designed for introductory one-semester or one-year courses in communications networks in upper-level undergraduate programs. The second half of the book can be used in more advanced courses. As pre-requisites the book assumes a general knowledge of computer systems and programming, and elementary calculus. The second edition expands on the success of the first edition by updating on technological changes in networks and responding to comprehensive market feedback..

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## **TCP/IP PROTOCOL SUITE**

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McGraw-Hill Science, Engineering & Mathematics *Networking technologies have become an integral part of everyday life, which has led to a dramatic increase in the number of professions where it is important to understand network technologies. TCP/IP Protocol Suite teaches students and professionals, with no prior knowledge of TCP/IP, everything they need to know about the subject. This comprehensive book uses hundreds of figures to make technical concepts easy to grasp, as well as many examples, which help tie the material to the real-world. The second edition of TCP/IP Protocol Suite has been fully updated to include all of the recent technology changes in the field. Many new chapters have been added such as one on Mobile IP, Multimedia and Internet, Network Security, and IP over ATM. Additionally, out-of-date material has been overhauled to reflect recent changes in technology.*

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## **COMPUTER AND COMMUNICATION NETWORKS**

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Pearson Education *Computer and Communication Networks, Second Edition*, explains the modern technologies of networking and communications, preparing you to analyze and simulate complex networks, and to design cost-effective networks for emerging requirements. Offering uniquely balanced coverage of basic and advanced topics, it teaches through case studies, realistic examples and exercises, and intuitive illustrations. Nader F. Mir establishes a solid foundation in basic networking concepts; TCP/IP schemes; wireless and LTE networks; Internet applications, such as Web and e-mail; and network security. Then, he delves into both network analysis and advanced networking protocols, VoIP, cloud-based multimedia networking, SDN, and virtualized networks. In this new edition, Mir provides updated, practical, scenario-based information that many networking books lack, offering a uniquely effective blend of theory and implementation. Drawing on extensive field experience, he presents many contemporary applications and covers key topics that other texts overlook, including P2P and voice/video networking, SDN, information-centric networking, and modern router/switch design. Students, researchers, and networking professionals will find up-to-date, thorough coverage of Packet switching Internet protocols (including IPv6) Networking devices Links and link interfaces LANs, WANs, and Internetworking Multicast routing, and protocols Wide area wireless networks and LTE Transport and end-to-end protocols Network applications and management Network security Network queues and delay analysis Advanced router/switch architecture QoS and scheduling Tunneling, VPNs, and

MPLS All-optical networks, WDM, and GMPLS Cloud computing and network virtualization Software defined networking (SDN) VoIP signaling Media exchange and voice/video compression Distributed/cloud-based multimedia networks Mobile ad hoc networks Wireless sensor networks Key features include More than three hundred fifty figures that simplify complex topics Numerous algorithms that summarize key networking protocols and equations Up-to-date case studies illuminating concepts and theory Approximately four hundred exercises and examples honed over Mir's twenty years of teaching networking

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## **DATA COMMUNICATIONS AND NETWORKING**

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McGraw-Hill College

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### **USE DATA COMMUNICATIONS AND NETWORKING WITH TCP/IP PROTOCOL SUITE**

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#### **A GUIDE TO THE TCP/IP PROTOCOL SUITE**

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Artech House Telecommunication Now you can keep up-to-date on all the major protocols of a TCP/IP-based network -- without searching through dozens of detailed RFCs. All you need is this comprehensive, technical update, which describes the most interfaces of any single source and features an introduction to binary and hexadecimal arithmetic.

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#### **PRINCIPLES OF INFORMATION SECURITY**

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Cengage Learning Discover the latest trends, developments and technology in information security today with Whitman/Mattord's market-leading *PRINCIPLES OF INFORMATION SECURITY, 7th Edition*. Designed specifically to meet the needs of those studying information systems, this edition's balanced focus addresses all aspects of information security, rather than simply offering a technical control perspective. This overview explores important terms and examines what is needed to manage an effective information security program. A new module details incident response and detection strategies. In addition, current, relevant updates highlight the latest practices in security operations as well as legislative issues, information management toolsets and digital forensics. Coverage of the most recent policies and guidelines that correspond to federal and international standards further prepare you for success both in information systems and as a business decision-maker. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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#### **LOOSE LEAF FOR C++ PROGRAMMING: AN OBJECT-ORIENTED APPROACH**

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McGraw-Hill Education C++ Programming: An Object-Oriented Approach has two primary objectives: Teach the basic principles of programming as outlined in the ACM curriculum for a CS1 class and teach the basic constructs of the C++ language. While C++ is a complex and professional language, experience shows that beginning students can easily understand and use C++. C++ Programming: An Object-Oriented Approach uses a combination of thorough, well-ordered explanations and a strong visual framework to make programming concepts accessible to students. The authors stress incremental program development, wherein program analysis is followed by building a structure chart, constructing UML flow diagrams, writing algorithms, undertaking program design, and finally testing. This foundation, combined with a focus on the benefits of a consistent and well-documented programming style, prepares students to tackle the academic and professional programming challenges they will encounter down the road with confidence.

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#### **SECURITY SELF-ASSESSMENT GUIDE FOR INFORMATION TECHNOLOGY SYSTEM**

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#### **INTRODUCTION TO DATA COMMUNICATIONS AND NETWORKING**

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McGraw-Hill Science, Engineering & Mathematics This is a thorough introduction to the concepts underlying networking technology, from physical carrier media to protocol suites (for example, TCP/IP). The author includes historical material to show the logic behind the development of a given mechanism, and also includes comprehensive discussions of increasingly important material, such as B-ISDN (Broadband Integrated Services Digital Network) and ATM (Asynchronous Transmission Mode).

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#### **JAVA PROGRAMMING: A COMPREHENSIVE INTRODUCTION**

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McGraw-Hill Education Java Programming: A Comprehensive Introduction is designed for an introductory programming course using Java. This text takes a logical approach to the presentation of core topics, moving step-by-step from the basics to more advanced material, with objects being introduced at the appropriate time. The book is divided into three parts: Part One covers the elements of the Java language and the fundamentals of programming. An introduction to object-oriented design is also included. Part Two introduces GUI (Graphical User Interface) programming using Swing. Part Three explores key aspects of Java's API (Application Programming Interface) library, including the Collections Framework and the concurrency API. Herb Schildt has written many successful programming books in Java, C++, C, and C#. His books have sold more than three million copies. Dale Skrien is a professor at Colby College with degrees from the University of Illinois-Champaign, the University of Washington, and St. Olaf College. He's also authored two books and is very active in SIGCSE.

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#### **UNIX AND SHELL PROGRAMMING**

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##### **A TEXTBOOK**

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Cengage Learning Designed as one of the first true textbooks on how to use the UNIX operating system and suitable for a wide variety of UNIX-based courses, *UNIX and Shell Programming* goes beyond providing a reference of commands to offer a guide to basic commands and shell programming. Forouzan/Gilberg begin by introducing students to basic commands and tools of the powerful UNIX operating system. The authors then present simple scripting concepts, and cover all material required for understanding shells

(e.g., Regular Expressions, grep, sed, and awk) before introducing material on the Korn, C, and Bourne shells. Throughout, in-text learning aids encourage active learning and rich visuals support concept presentation. For example, sessions use color so students can easily distinguish user input from computer output. In addition, illustrative figures help student visualize what the command is doing. Each chapter concludes with problems, including lab sessions where students work on the computer and complete sessions step-by-step. This approach has proven to be successful when teaching this material in the classroom.

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## COMPUTER NETWORKS

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### A SYSTEMS APPROACH

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Elsevier 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 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 attention Free downloadable network simulation software and lab experiments manual available

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## WEB COMMERCE TECHNOLOGY HANDBOOK

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Computing McGraw-Hill This guide shows corporate network administrators and small business owners how to plan, implement, and maintain an Internet Commerce Center. "Cyberpreneurs" will obtain the know-how to market, sell, and transact online.

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## INTERNET CRYPTOGRAPHY

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Here is the solution for Internet security: modern-day crypto. This book covers network & Internet security in terms that are easy to understand, using a proven technology, systems, & solutions. From the client workstation to the Web host to the e-mail server, every aspect of this important topic is examined & explained. The once-daunting subject of crypto is demystified & applied to today's security challenges. Topics include: essentials of crypto, networking & internet fundamentals, encryption building blocks, virtual private networks, legal considerations, secured e-mail, internet firewalls, & more.

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## COMPUTER NETWORKS

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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).

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## WORKING IN MICROSOFT OFFICE

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McGraw-Hill Osborne Media Combining step-by-step instruction with illustrations and hands-on examples, this valuable handbook of Microsoft Office explains how to use Microsoft Word, Excel, PowerPoint, Access, Wizards, and Schedule +, as well as the integrated capabilities of the program. Original. (All Users).

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## JAVA PROGRAMMING

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### A PRACTICAL APPROACH

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## COMPUTER NETWORKING

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### A TOP-DOWN APPROACH

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Addison-Wesley Longman Computer Networking provides a top-down approach to this study by beginning with applications-level protocols and then working down the protocol stack. Focuses on a specific motivating example of a network-the Internet-as well as introducing students to protocols in a more theoretical context. New short "interlude" on "putting it all together" that follows the coverage of application, transport, network, and datalink layers ties together the various components of the Internet architecture and identifying aspects of the architecture that have made the Internet so successful. A new chapter covers wireless and mobile networking, including in-depth coverage of Wi-Fi, Mobile IP and GSM. Also included is expanded coverage on BGP, wireless security and DNS. This book is designed for readers who need to learn the fundamentals of computer networking. It also has extensive

material, on the very latest technology, making it of great interest to networking professionals.

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## COMPUTER SCIENCE

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### A STRUCTURED PROGRAMMING APPROACH

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### WIRELESS MESH NETWORKS

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John Wiley & Sons *Going beyond classic networking principles and architectures for better wireless performance* Written by authors with vast experience in academia and industry, *Wireless Mesh Networks* provides its readers with a thorough overview and in-depth understanding of the state-of-the-art in wireless mesh networking. It offers guidance on how to develop new ideas to advance this technology, and how to support emerging applications and services. The contents of the book follow the TCP/IP protocol stack, starting from the physical layer. Functionalities and existing protocols and algorithms for each protocol layer are covered in depth. The book is written in an accessible textbook style, and contains supporting materials such as problems and exercises to assist learning. **Key Features:** Presents an in-depth explanation of recent advances and open research issues in wireless mesh networking, and offers concrete and comprehensive material to guide deployment and product development Describes system architectures and applications of wireless mesh networks (WMNs), and discusses the critical factors influencing protocol design Explores theoretical network capacity and the state-of-the-art protocols related to WMNs Surveys standards that have been specified and standard drafts that are being specified for WMNs, in particular the latest standardization results in IEEE 802.11s, 802.15.5, 802.16 mesh mode, and 802.16 relay mode Includes an accompanying website with PPT-slides, further reading, tutorial material, exercises, and solutions Advanced students on networking, computer science, and electrical engineering courses will find *Wireless Mesh Networks* an essential read. It will also be of interest to wireless networking academics, researchers, and engineers at universities and in industry.

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### LOCAL AREA NETWORKS

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*Local Area Networks (LANs) have become an integral part of communication in today's world. The establishments that use LAN applications include businesses, educational facilities, hospitals, stock exchanges and warehouses. This book offers reader-friendly, comprehensive coverage of LAN technologies, teaching the reader how to use them in real-world applications. The text is ideal for students both in the classroom and later as a reference. Forouzan motivates topics by practical applications, and his liberal use of figures makes difficult technical topics easier to grasp by providing an intuitive, visual representation of concepts. Extensive practice sets are also provided at the end of each chapter, which reinforce what the student has learned The book is also up-to-date, presenting indepth material on such current topics as Gigabit Ethernet, ATM LAN, Wireless LAN, VPN and VLAN.*

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### ALLIED MATHEMATICS

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S. Chand Publishing *Algebra | Partial Fractions | The Binomial Theorem | Exponential Theorem | The Logarithmic Series Theory Of Equations | Theory Of Equations | Reciprocal Equations | Newton-Rahson Method Matrices | Fundamental Concepts | Rank Of A Matrix | Linear Equations | Characteristic Roots And Vectors Finite Differences | Finite Differences | Interpolations: Newton'S Forward, Backward Interpolation | Lagrange'S Interpolation Trigonometry | Expansions | Hyperbolic Functions Differential Calculus | Successive Derivatives | Jacobians | Polar Curves Etc..*

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### LASER SYSTEMS AND APPLICATIONS

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PHI Learning Pvt. Ltd.

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### ETHICAL HACKING AND PENETRATION TESTING GUIDE

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CRC Press *Requiring no prior hacking experience, Ethical Hacking and Penetration Testing Guide supplies a complete introduction to the steps required to complete a penetration test, or ethical hack, from beginning to end. You will learn how to properly utilize and interpret the results of modern-day hacking tools, which are required to complete a penetration test. The book covers a wide range of tools, including Backtrack Linux, Google reconnaissance, MetaGooFil, dig, Nmap, Nessus, Metasploit, Fast Track Autopwn, Netcat, and Hacker Defender rootkit. Supplying a simple and clean explanation of how to effectively utilize these tools, it details a four-step methodology for conducting an effective penetration test or hack. Providing an accessible introduction to penetration testing and hacking, the book supplies you with a fundamental understanding of offensive security. After completing the book you will be prepared to take on in-depth and advanced topics in hacking and penetration testing. The book walks you through each of the steps and tools in a structured, orderly manner allowing you to understand how the output from each tool can be fully utilized in the subsequent phases of the penetration test. This process will allow you to clearly see how the various tools and phases relate to each other. An ideal resource for those who want to learn about ethical hacking but dont know where to start, this book will help take your hacking skills to the next level. The topics described in this book comply with international standards and with what is being taught in international certifications.*

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### DATA MINING TECHNIQUES

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Universities Press *This Book Addresses All The Major And Latest Techniques Of Data Mining And Data Warehousing. It Deals With The Latest Algorithms For Discussing Association Rules, Decision Trees, Clustering, Neural Networks And Genetic Algorithms. The Book Also Discusses The Mining Of Web Data, Temporal And Text Data. It Can Serve As A Textbook For Students Of Computer Science, Mathematical Science And Management Science, And Also Be An Excellent Handbook For Researchers In The Area Of Data Mining And Warehousing.*

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## NETWORK SECURITY ESSENTIALS

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### APPLICATIONS AND STANDARDS

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Prentice Hall *Network Security Essentials, Third Edition* is a thorough, up-to-date introduction to the deterrence, prevention, detection, and correction of security violations involving information delivery across networks and the Internet.

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### ADVANCED MICROPROCESSORS & PERIPHERALS

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Tata McGraw-Hill Education

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### END-TO-END NETWORK SECURITY

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### DEFENSE-IN-DEPTH

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Pearson Education *End-to-End Network Security Defense-in-Depth* Best practices for assessing and improving network defenses and responding to security incidents Omar Santos Information security practices have evolved from Internet perimeter protection to an in-depth defense model in which multiple countermeasures are layered throughout the infrastructure to address vulnerabilities and attacks. This is necessary due to increased attack frequency, diverse attack sophistication, and the rapid nature of attack velocity—all blurring the boundaries between the network and perimeter. *End-to-End Network Security* is designed to counter the new generation of complex threats. Adopting this robust security strategy defends against highly sophisticated attacks that can occur at multiple locations in your network. The ultimate goal is to deploy a set of security capabilities that together create an intelligent, self-defending network that identifies attacks as they occur, generates alerts as appropriate, and then automatically responds. *End-to-End Network Security* provides you with a comprehensive look at the mechanisms to counter threats to each part of your network. The book starts with a review of network security technologies then covers the six-step methodology for incident response and best practices from proactive security frameworks. Later chapters cover wireless network security, IP telephony security, data center security, and IPv6 security. Finally, several case studies representing small, medium, and large enterprises provide detailed example configurations and implementation strategies of best practices learned in earlier chapters. Adopting the techniques and strategies outlined in this book enables you to prevent day-zero attacks, improve your overall security posture, build strong policies, and deploy intelligent, self-defending networks. “Within these pages, you will find many practical tools, both process related and technology related, that you can draw on to improve your risk mitigation strategies.” —Bruce Murphy, Vice President, World Wide Security Practices, Cisco Omar Santos is a senior network security engineer at Cisco®. Omar has designed, implemented, and supported numerous secure networks for Fortune 500 companies and the U.S. government. Prior to his current role, he was a technical leader within the World Wide Security Practice and the Cisco Technical Assistance Center (TAC), where he taught, led, and mentored many engineers within both organizations. Guard your network with firewalls, VPNs, and intrusion prevention systems Control network access with AAA Enforce security policies with Cisco Network Admission Control (NAC) Learn how to perform risk and threat analysis Harden your network infrastructure, security policies, and procedures against security threats Identify and classify security threats Trace back attacks to their source Learn how to best react to security incidents Maintain visibility and control over your network with the SAVE framework Apply Defense-in-Depth principles to wireless networks, IP telephony networks, data centers, and IPv6 networks This security book is part of the Cisco Press® Networking Technology Series. Security titles from Cisco Press help networking professionals secure critical data and resources, prevent and mitigate network attacks, and build end-to-end self-defending networks. Category: Networking: Security Covers: Network security and incident response

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### FOUNDATIONS OF COMPUTER SCIENCE

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Cengage Learning Business Press Based on the ACM model curriculum guidelines, this text covers the fundamentals of computer science required for first year students embarking on a computing degree. Data representation of text, audio, images, and numbers; computer hardware and software, including operating systems and programming languages; data organization topics such as SQL database models - they're all [included]. Progressing from the bits and bytes level to the higher levels of abstraction, this birds-eye view provides the foundation to help you succeed as you continue your studies in programming and other areas in the computer field. Back cover.

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### ROUTING TCP/IP

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Cisco Press A detailed examination of interior routing protocols -- completely updated in a new edition A complete revision of the best-selling first edition--widely considered a premier text on TCP/IP routing protocols A core textbook for CCIE preparation and a practical reference for network designers, administrators, and engineers Includes configuration and troubleshooting lessons that would cost thousands to learn in a classroom and numerous real-world examples and case studies Praised in its first edition for its approachable style and wealth of information, this new edition provides readers a deep understanding of IP routing protocols, teaches how to implement these protocols using Cisco routers, and brings readers up to date protocol and implementation enhancements. *Routing TCP/IP, Volume 1, Second Edition*, includes protocol changes and Cisco features that enhance routing integrity, secure routers from attacks initiated through routing protocols, and provide greater control over the propagation of routing information for all the IP interior routing protocols. *Routing TCP/IP, Volume 1, Second Edition*, provides a detailed analysis of each of the IP interior gateway protocols (IGPs). Its structure remains the same as the best-selling first edition, though information within each section is enhanced and modified to include the new developments in routing protocols and Cisco implementations. What's New In This Edition? The first edition covers routing protocols as they existed in 1998. The new book updates all covered routing protocols and discusses new features integrated in the latest version of Cisco IOS Software. IPv6, its use with interior routing protocols, and its interoperability and integration with IPv4 are also integrated into this book. Approximately 200 pages of new information are added to the main text, with some old text removed. Additional exercise and solutions are also included.

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## **PROGRAMMING FOR EVERYONE IN JAVA**

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*Springer Science & Business Media* This book assumes very little or no knowledge of how computers work, and shows how to write understandable programs in Java. Even though most readers will not wish to become professional programmers, programming is fun and useful, and, in today's world it is important for professionals in any field to appreciate what computers can (and cannot) do well. To reach this level of understanding, Per Brinch Hansen goes beyond the routine skills of a computer user and explains the art of programming in some depth, allowing readers to write Java programs for use on the WWW or company's Intranet. Although a book about programming with Java, the same methods can be used for systematic programming in such languages as C, Fortran, and Pascal. The book makes a splendid text for a one semester course on beginning programming and is backed by teaching aids available at the author's Website.

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## **DATA AND COMPUTER COMMUNICATIONS**

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