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ATM Networks Communication Networks 3G Mobile Networks 2G Mobile Networks Outlines and Highlights for Communication Networks by Sumit Kasera, Isbn 2.5G Mobile Networks 2.5G Mobile Networks Atm Networks: Concepts And Protocols Communication Networks Studyguide for Communication Networks by Kasera, Sumit Introduction to 3G Mobile Communications High-performance Communication Networks 2.5G Mobile Networks Communication Networks Study Companion UWB Communication Systems 3G Networks 3G Networks Advances in Computing and Data Sciences Communication Networks ATM Networks Software Defined Networking Harmony Search and Nature Inspired Optimization Algorithms Delmar's Standard Textbook of Electricity How to Become a Hacker Performance Optimization of IP Multimedia Subsystem Supramolecular Systems in Biomedical Fields Electricity 3: Power Generation and Delivery Nanoplasmonic Sensors Introduction To Computer Simulations For Integrated Stem College Education Advanced Google AdWords Java Network Programming and Distributed Computing Harmony Search Algorithm Introduction to Programmable Logic Controllers Data Communications & Network Supramolecular Photochemistry WCDMA for UMTS Design, Deployment and Performance of 4G-LTE Networks Modern Supramolecular Chemistry Software Defined Networks

Introduction to Programmable Logic Controllers Oct 21 2020 Updated to reflect recent industry developments, this edition features practical information on Rockwell Automation's SLC 500 family of PLCs and includes a no-nonsense introduction to RSLogix software and the new ControlLogix PLC. To assist readers in understanding key concepts, the art program has been modernized to include improved illustrations, current manufacturer-specific photos, and actual RSLogix software screens to visibly illustrate essential principles of PLC operation. New material has been added on ControlNet and DeviceNet, and a new chapter on program flow instructions includes updated references to the SLC 500, MicroLogix, and the PLC 5. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Software Defined Networking Nov 02 2021 Software Defined Networking: Design and Deployment provides a comprehensive treatment of software defined networking (SDN) suitable for new network managers and experienced network professionals. Presenting SDN in context with more familiar network services and challenges, this accessible text: Explains the importance of virtualization, particularly the impact of virtualization on servers and networks Addresses SDN, with an emphasis on the network control plane Discusses SDN implementation and the impact on service providers, legacy networks, and network vendors Contains a case study on Google's initial implementation of SDN Investigates OpenFlow, the hand-in-glove partner of SDN Looks forward toward more programmable networks and the languages needed to manage these environments Software Defined Networking: Design and Deployment offers a unique perspective of the business case and technology motivations for considering SDN solutions. By identifying the impact of SDN on traffic management and the potential for network service growth, this book instills the knowledge needed to manage current and future demand and provisioning for SDN.

Studyguide for Communication Networks by Kasera, Sumit Nov 14 2022 Never HIGHLIGHT a Book Again! Virtually all testable terms, concepts, persons, places, and events are included. Cram101 Textbook Outlines gives all of the outlines, highlights, notes for your textbook with optional online practice tests. Only Cram101 Outlines are Textbook Specific. Cram101 is NOT the Textbook. Accompanys: 9780521673761

3G Networks Mar 06 2022 In India, the mobile subscribers base is increasing at a phenomenal rate. After the successful adoption of Second Generation (2G) Technology GSM and 2.5G Technology GPRS, the industry is now rapidly moving towards Third Generation (3G) Networks. The book.

Harmony Search Algorithm Nov 21 2020 The Harmony Search Algorithm (HSA) is one of the most well-known techniques in the field of soft computing, an important paradigm in the science and engineering community. This volume, the proceedings of the 2nd International Conference on Harmony Search Algorithm 2015 (ICHSA 2015), brings together contributions describing the latest developments in the field of soft computing with a special focus on HSA techniques. It includes coverage of new methods that have potentially immense application in various fields. Contributed articles cover aspects of the following topics related to the Harmony Search Algorithm: analytical studies; improved, hybrid and multi-objective variants; parameter tuning; and large-scale applications. The book also contains papers discussing recent advances on the following topics: genetic algorithms; evolutionary strategies; the firefly algorithm and cuckoo search; particle swarm optimization and ant colony optimization; simulated annealing; and local search techniques. This book offers a valuable snapshot of the current status of the Harmony Search Algorithm and related techniques, and will be a useful reference for practising researchers and advanced students in computer science and engineering.

3G Mobile Networks Jun 21 2023 This is a detailed deconstruction and explanation of the UMTS 3G mobile communications protocol and the networks that run it. Written for engineers and wireless networking professionals, it details the 3GPP standards, UMTS architecture, the procedures for running UMTS across a wireless network, IP in UMTS networks, and network deployment. More comprehensive than any other book available, this is also the most up to date treatment of UMTS engineering.

Data Communications & Network Sep 19 2020

Electricity 3: Power Generation and Delivery Apr 26 2021 Updated to the 2011 National Electrical Code, ELECTRICITY 3: POWER GENERATION AND DELIVERY, 10E explores various types of generators and the delivery of single phase and three-phase power to the customer site. Its thorough coverage of power generation and delivery includes topics such as DC generators, polyphase circuits, three-phase wye and delta connections, electrical characteristics of three-phase alternators, alternative power sources, transformers, and more. An excellent resource for both novice and practicing electrical workers, ELECTRICITY 3 emphasizes electrical system operation, giving readers a solid understanding of electrical procedures and how to apply them while troubleshooting. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Outlines and Highlights for Communication Networks by Sumit Kasera, Isbn Apr 19 2023 Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included.

Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780071476560 .

Software Defined Networks Apr 14 2020 Software Defined Networks: A Comprehensive Approach, Second Edition provides in-depth coverage of the technologies collectively known as Software Defined Networking (SDN). The book shows how to explain to business decision-makers the benefits and risks in shifting parts of a network to the SDN model, when to integrate SDN technologies in a network, and how to develop or acquire SDN applications. In addition, the book emphasizes the parts of the technology that encourage opening up the network, providing treatment for alternative approaches to SDN that expand the definition of SDN as networking vendors adopt traits of SDN to their existing solutions. Since the first edition was published, the SDN market has matured, and is being gradually integrated and morphed into something more compatible with mainstream networking vendors. This book reflects these changes, with coverage of the OpenDaylight controller and its support for multiple southbound protocols, the inclusion of NETCONF in discussions on controllers and devices, expanded coverage of NFV, and updated coverage of the latest approved version (1.5.1) of the OpenFlow specification. Contains expanded coverage of controllers Includes a new chapter on NETCONF and SDN Presents expanded coverage of SDN in optical networks Provides support materials for use in computer networking courses

How to Become a Hacker Jul 30 2021 How to Become a Hacker Computer Hacking Beginners Guide The term "hacker" today has garnered a negative connotation. You've heard about hackers breaking into computer systems and looking at or even stealing some very sensitive and very private information. Millions of computer users worldwide have felt the effects of hacking activity. That includes virus attacks, spyware, and other forms of malware that slow down, break into, or even cripple your computer system. However, not all hackers are dubious and unscrupulous souls who have nothing better to do in life. In fact, the term "hacker" originally had a very positive and beneficial meaning to it. Traditionally, a hacker is someone who likes to tinker with computers and other forms of electronics. They enjoy figuring out how current systems work and find ways to improve them. In other words, he used to be the guy who had to figure out how to make computers faster and better. Nowadays, a hacker is just someone who steals electronic information for their own self-interest. Nevertheless, there are still good hackers (white hat hackers) and bad hackers (black hat hackers). It basically takes a hacker to catch a hacker and the good news is that a lot of them are on your side of the playing field. The premise of this book is to help you learn the basics of ethical hacking (the stuff that white hat hackers do). But in order to know what to look out for, you will have to catch a glimpse of what black hat hackers do. The bottom line here is that hacking is no more than a set of computer skills that can be used for either good or bad. How one uses those skills will clearly define whether one is a white hat or a black hat hacker. The skills and tools are always neutral; only when they are used for malicious purposes do they take a turn for the worse. What are the Objectives of Ethical Hacking? If hacking per se today is bent on stealing valuable information, ethical hacking on the other hand is used to identify possible weak points in your computer system or network and making them secure before the bad guys (aka the black hat hackers) use them against you. It's the objective of white hat hackers or ethical hackers to do security checks and keep everything secure. That is also the reason why some professional white hat hackers are called penetration testing specialists. One rule of thumb to help distinguish penetration testing versus malicious hacking is that white hat hackers have the permission of the system's owner to try and break their security. In the process, if the penetration testing is successful, the owner of the system will end up with a more secure computer system or network system. After all the penetration testing is completed, the ethical hacker, the one who's doing the legal hacking, will recommend security solutions and may even help implement them. It is the goal of ethical hackers to hack into a system (the one where they were permitted and hired to hack, specifically by the system's owner) but they should do so in a non-destructive way. This means that even though they did hack into the system, they should not tamper with the system's operations. Part of their goal is to discover as much vulnerability as they can. They should also be able to enumerate them and report back to the owner of the system that they hacked. It is also their job to prove each piece of vulnerability they discover. This may entail a demonstration or any other kind of evidence that they can present. Ethical hackers often report to the owner of the system or at least to the part of a company's management that is responsible for system security. They work hand in hand with the company to keep the integrity of their computer systems and data. Their final goal is to have the results of their efforts implemented and make the system better secured.

Introduction To Computer Simulations For Integrated Stem College Education Feb 22 2021 This book is written to introduce computer simulations to undergraduate college students, freshmen to seniors, in STEM fields. The book starts with concepts from Basic Mathematics: Geometry, Algebra and Calculus, Properties of Elementary Functions (Polynomials, Exponential, Hyperbolic and Trigonometric Functions) are studied and simple differential equations representing these functions are derived. Numerical approximations of first and second order differential equations are studied in terms of finite differences on uniform grids. Computer solutions are obtained via recursive relations or solutions of simultaneous algebraic equations. Comparisons with the exact solutions (known a priori) allow the calculations of the error due to discretization. After the students build confidence in this approach, more problems where the solutions are not known a priori are tackled with applications in many fields. Next, the book gradually addresses linear differential equations with variable coefficients and nonlinear differential equations, including problems of bifurcation and chaos. Applications in Dynamics, Solid Mechanics, Fluid Mechanics, Heat Transfer, Chemical Reactions, and Combustion are included. Biographies of 50 pioneering mathematicians and scientists who contributed to the materials of the book are briefly sketched, to shed light on the history of these STEM fields. Finally, the main concepts discussed in the book, are summarized to make sure that the students do not miss any of them. Also, references for further readings are given for interested readers.

Advanced Google AdWords Jan 24 2021 Master every aspect of the powerful Google AdWords platform with this one-of-a-kind guide AdWords expert Brad Geddes, the first and only Advanced AdWords Seminar leader for Google, shares his detailed instruction and insights to get new users up and running quickly and teach AdWords pros some slick new tricks. This must-have new edition offers 50+ pages of fresh material on such topics as retargeting, tracking for analytics, video ad features, ad extensions, and much more. The ultimate guide to advanced Google AdWords techniques authored by a respected AdWords expert who is the Advanced AdWords Seminar leader for Google and a well-known internet marketing consultant Offers insight, direction, and strategies for using every aspect of AdWords to create and manage successful pay-per-click marketing campaigns Goes well beyond the basics and offers tips and tactics that you can apply immediately to your own campaigns Updated and better-than-ever Second Edition features 50+ pages of new material, including targeting capabilities and remarketing, ad extensions, bidding features, tracking for analytics, video ad features, reporting features, and more Provides busy marketers, consultants, PR professionals, web developers, and others with an invaluable, step-by-step guide to keep on hand Includes a Google AdWords coupon If you want to drive the traffic you choose to your website, then this is the guide to get you there.

High-performance Communication Networks Sep 12 2022 Retaining the first edition's technology-centred perspective, this book gives readers a sound understanding of packed-switched, circuit-switched and ATM networks, and techniques for controlling them.

ATM Networks Dec 03 2021 Networking technologies are playing a pivotal role in 'networking' our world. Among the networking technologies that are relevant today, ATM is one of the most popular and pervasive as it seamlessly integrates local area networks and wide area networks. F.

3G Networks Apr 07 2022 In India, the mobile subscribers base is increasing at a phenomenal rate. After the successful adoption of Second Generation (2G) Technology GSM and 2.5G Technology GPRS, the industry is now rapidly moving towards Third Generation (3G) Networks. The book, written by two young engineers, touches almost every imaginable aspect of a 3G Network, spanning across topics such as: UMTS Network Architecture (including Access Network and Core Network), Protocols (including RRC, NBAP, RANAP, MM/GMM, MAP and GTP), Procedures (including UTRAN Procedures, Mobility Management, Call/Session handling and Security Management), and Services (including Supplementary Services and Value-added Services). Also the book covers topics like IP Multimedia Sub-system (IMS) and SIGTRAN. Besides these, the book includes the status of deployment of 3G UMTS Networks across the world and provides a brief introduction to 4G Networks setting the tone for future advancements.

Advances in Computing and Data Sciences Feb 05 2022 This book constitutes the refereed proceedings of the First International Conference on Advances in Computing and Data Sciences, ICACDS 2016, held in Ghaziabad, India, in November 2016. The 64 full papers were carefully reviewed and selected from 502 submissions. The papers are organized in topical sections on Advanced Computing; Communications; Informatics; Internet of Things; Data Sciences.

Communication Networks Jul 10 2022 . 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..

2.5G Mobile Networks Feb 17 2023 An authoritative guide to 2.5G Networking Technologies, this book culminates the trilogy of books written by Sumit Kasera and Nishit Narang on three key wireless technologies--2G, 2.5G and 3G Mobile Networks. Even though 2G and 2.5G technologies, as compared to 3G, are more than a decade old, the current corporate battle for 2G spectrum in India, indicates the significance and growth potential of these technologies including GSM and GPRS. 2.5G Mobile Networks is a complete coverage of GPRS and EDGE concepts presented in simple non-technical language without complex mathematics. An ideal primer for those working in or studying networking technologies, this book focuses mainly on procedures and basis of signaling exchanges. Readers will find a detailed treatment on GPRS network architecture, a healthy mix of concepts and protocols of Air Interface and Core Network, discussion on GPRS user-plane aspects with focus on user-plane protocols, important aspects of EDGE and much more. This book will be a valuable guide to both engineers as well as students working on GPRS and EDGE. It will also be a great follow up for those with knowledge on GSM and want to know more on the intermediate technologies before studying 3G UMTS.

Delmar's Standard Textbook of Electricity Aug 31 2021 Mastering the theory and application of electrical concepts is necessary for a successful career in the electrical installation or industrial maintenance fields, and this new fifth edition of DELMAR'S STANDARD TEXTBOOK OF ELECTRICITY delivers! Designed to train aspiring electricians, this text blends concepts relating to electrical theory and principles with practical 'how to' information that prepares students for situations commonly encountered on the job. Topics span all the major aspects of the electrical field including atomic structure and basic electricity, direct and alternating current, basic circuit theory, three-phase circuits, single phase, transformers, generators, and motors. This revision retains all the hallmarks of our market-leading prior editions and includes enhancements such as updates to the 2011 NEC, a CourseMate homework lab option, and a new chapter on industry orientation as well as tips on energy efficiency throughout the text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

ATM Networks Aug 23 2023 This book covers all the important topics related to ATM.

Supramolecular Systems in Biomedical Fields May 28 2021 Non-covalent interactions, which are the heart of supramolecular chemistry, are also the basis of most important functions of living systems. The ability to apply supramolecular chemistry principles to the life sciences, such as designing synthetic host compounds to selectively interact with biological targets, has gained wide appeal due to the vast number of potential applications.

Supramolecular Systems for Biomedical Fields provides in sixteen chapters a comprehensive overview of these applications. Each chapter covers a specific topic and is written by internationally renowned experts in that area. Sensing of bioactive inorganic ions and organic substrates is the focus of several contributions, as well as interactions with proteins and nucleic acids. Specific chapters are devoted to cyclodextrins, calixarenes and cucurbiturils as most frequently used receptors, including applications such as drug delivery and protection, gene transfer and others. Other chapters address the use of combinatorial libraries, molecular imprinting techniques, enzyme assays, supramolecular gels, bioimaging, drug activation, photodynamic therapy, and antitumour metal complexes. This timely publication will appeal to graduate students and researchers from chemical, pharmaceutical, biological, and medicinal fields interested in the supramolecular chemistry of biological systems and their practical potentials.

UWB Communication Systems May 08 2022 Ultrawideband (UWB) communication systems offer an unprecedented opportunity to impact the future communication world. The enormous available bandwidth, the wide scope of the data rate / range trade-off, as well as the potential for very low-cost operation leading to pervasive usage, all present a unique opportunity for UWB systems to impact the way people and intelligent machines communicate and interact with their environment. The aim of this book is to provide an overview of the state of the art of UWB systems from theory to applications. Due to the rapid progress of multidisciplinary UWB research, such an overview can only be achieved by combining the areas of expertise of several scientists in the field. More than 30 leading UWB researchers and practitioners have contributed to this book covering the major topics relevant to UWB. These topics include UWB signal processing, UWB channel measurement and modeling, higher-layer protocol issues, spatial aspects of UWB signaling, UWB regulation and standardization, implementation issues, and UWB applications as well as positioning. The book is targeted at advanced academic researchers, wireless designers, and graduate students wishing to greatly enhance their knowledge of all aspects of UWB systems

Modern Supramolecular Chemistry May 16 2020 Written by internationally acclaimed experts, this handy volume covers all major classes of supramolecular compounds. Chapters include cyclophanes, resorcinarene and calixarene synthesis, supramolecular metallomacrocycles and macrocycle synthesis, rotaxane and catenane synthesis, cucurbiturils and porphyrins, as well as macrocyclic drugs. Each chapter contains experimental procedures allowing fast access to this type of synthetic chemistry.

2.5G Mobile Networks Mar 18 2023 An Authoritative Guide to 2.5G Networking Technologies This book culminates the trilogy of books written by Sumit Kasera and Nishit Narang on three key wireless technologies-2G. 2.5G and 3G Mobile Networks. Even though 2G and 2.5G technologies, as compare.

Java Network Programming and Distributed Computing Dec 23 2020 Java's rich, comprehensive networking interfaces make it an ideal platform for building today's networked, Internet-centered applications, components, and Web services. Now, two Java networking experts demystify Java's complex networking API, giving developers practical insight into the key techniques of network development, and providing extensive code examples that show exactly how it's done. David and Michael Reilly begin by reviewing fundamental Internet architecture and TCP/IP protocol concepts all network programmers need to understand, as well as general Java features and techniques that are especially important in network programming, such as exception handling and input/output. Using practical examples, they show how to write clients and servers using UDP and TCP; how to build multithreaded network applications; and how to utilize HTTP and access the Web using Java. The book includes detailed coverage of server-side application development; distributed computing development with RMI and CORBA; and email-enabling applications with the powerful JavaMail API. For all beginning to intermediate Java programmers, network programmers who need to learn to work with Java.

Nanoplasmonic Sensors Mar 26 2021 This book is a compendium of the finest research in nanoplasmonic sensing done around the world in the last decade. It describes basic theoretical considerations of nanoplasmons in the dielectric environment, gives examples of the multitude of applications of nanoplasmonics in biomedical and chemical sensing, and provides an overview of future trends in optical and non-optical nanoplasmonic sensing. Specifically, readers are guided through both the fundamentals and the latest research in the two major fields nanoplasmonic sensing is applied to – bio- and chemo-sensing – then given the state-of-the-art recipes used in nanoplasmonic sensing research.

Introduction to 3G Mobile Communications Oct 13 2022 This revised edition provides professionals with an up-to-date introduction to third generation (3G) mobile communication system principles, concepts, and applications, without the use of advanced mathematics. This newly revised edition of an Artech House bestseller provides professionals with an up-to-date introduction to third generation (3G) mobile communication system principles, concepts, and applications, without the use of advanced mathematics. The second edition includes an even more thorough treatment of potential 3G applications and descriptions of new, emerging technologies.

Atm Networks: Concepts And Protocols Jan 16 2023

Supramolecular Photochemistry Aug 19 2020 This is the most updated, comprehensive collection of monographs on all aspects of photochemistry and photophysics related to natural and synthetic, inorganic, organic, and biological supramolecular systems. Supramolecular Photochemistry: Controlling Photochemical Processes addresses reactions in crystals, organized assemblies, monolayers, zeolites, clays, silica, micelles, polymers, dendrimers, organic hosts, supramolecular structures, organic glass, proteins and DNA, and applications of photosystems in confined media. This landmark publication describes the past, present, and future of this growing interdisciplinary area.

Communication Networks Jul 22 2023 Communication networks: Network Services, Protocol layering ...

Communication Networks Dec 15 2022 Communication Networks: Principles and Practice is a simple and jargon-free presentation on the core concepts of networking. The book adopts a novel approach, wherein each chapter first details a particular concept of networking and then explains it using examples from contemporary technologies like TCP/IP, ATM, 3G Networks, etc. Divided in the following three parts, the book covers the important topics of communication, networking, and computer networks:

Design, Deployment and Performance of 4G-LTE Networks Jun 16 2020 This book provides an insight into the key practical aspects and best practice of 4G-LTE network design, performance, and deployment Design, Deployment and Performance of 4G-LTE Networks addresses the key practical aspects and best practice of 4G networks design, performance, and deployment. In addition, the book focuses on the end-to-end aspects of the LTE network architecture and different deployment scenarios of commercial LTE networks. It describes the air interface of LTE focusing on the access stratum protocol layers: PDCP, RLC, MAC, and Physical Layer. The air interface described in this book covers the concepts of LTE frame structure, downlink and uplink scheduling, and detailed illustrations of the data flow across the protocol layers. It describes the details of the optimization process including performance measurements and troubleshooting mechanisms in addition to demonstrating common issues and case studies based on actual field results. The book provides detailed performance analysis of key features/enhancements such as C-DRX for Smartphones battery saving, CSFB solution to support voice calls with LTE, and MIMO techniques. The book presents analysis of LTE coverage and link budgets alongside a detailed comparative analysis with HSPA+. Practical link budget examples are provided for data and VoLTE scenarios. Furthermore, the reader is provided with a detailed explanation of capacity dimensioning of the LTE systems. The LTE capacity analysis in this book is presented in a comparative manner with reference to the HSPA+ network to benchmark the LTE network capacity. The book describes the voice options for LTE including VoIP protocol stack, IMS Single Radio Voice Call Continuity (SRVCC). In addition, key VoLTE features are presented: Semi-persistent scheduling (SPS), TTI bundling, Quality of Service (QoS), VoIP with C-DRX, Robust Header Compression (RoHC), and VoLTE Vocoders and De-Jitter buffer. The book describes several LTE and LTE-A advanced features in the evolution from Release 8 to 10 including SON, eICIC, CA, CoMP, HetNet, Enhanced MIMO, Relays, and LBS. This book can be used as a reference for best practices in LTE networks design and deployment, performance analysis, and evolution strategy. Conveys the theoretical background of 4G-LTE networks Presents key aspects and best practice of 4G-LTE networks design and deployment Includes a realistic roadmap for evolution of deployed 3G/4G networks Addresses the practical aspects for designing and deploying commercial LTE networks. Analyzes LTE coverage and link budgets, including a detailed comparative analysis with HSPA+. References the best practices in LTE networks design and deployment, performance analysis, and evolution strategy Covers infrastructure-sharing scenarios for CAPEX and OPEX saving. Provides key practical aspects for supporting voice services over LTE, Written for all 4G engineers/designers working in networks design for operators, network deployment engineers, R&D engineers, telecom consulting firms, measurement/performance tools firms, deployment subcontractors, senior undergraduate students and graduate students interested in understanding the practical aspects of 4G-LTE networks as part of their classes, research, or projects.

2.5G Mobile Networks Aug 11 2022 Even though 2G and 2.5G technologies, as compared to 3G, are more than a decade old, the current corporate battle for 2G spectrum in India, indicates the significance and growth potential of these technologies including GSM and GPRS. 2.5G Mobile Networks is a complete coverage of GPRS and EDGE concepts presented in simple non-technical language without complex mathematics. An ideal primer for those working in or studying networking technologies, this book focuses mainly on procedures and basis of signaling exchanges. Readers will find a detailed treatment on GPRS network architecture, a healthy mix of concepts and protocols of Air Interface and Core Network, discussion on GPRS user-plane aspects with focus on user-plane protocols, important aspects of EDGE and much more&

Study Companion Jun 09 2022 Appropriate for a first course on computer networking, this textbook describes the architecture and function of the application, transport, network, and link layers of the internet protocol stack, then examines audio and video networking applications, the underpinnings of encryption and network security, and the key issues of network management. Th

2G Mobile Networks May 20 2023 Readers will gain a thorough and quick understanding of GSM networks-from air interface to core network and the available services. The book provides an exhaustive coverage of protocol architecture and procedures, including radio resource and mobility management, as well as call handling. It begins by laying down the fundamentals of GSM technology cellular concepts, network and protocol architecture of GSM. This is followed by a discussion of GSM air interface that covers important topics including GSM frame hierarchy, burst structure, physical and logical channels. The discussion then moves onto the three logical parts of any basic wireless architecture-Mobile Station, Access and Core Networks. Important procedures of access and core networks are discussed next. The book ends with discussions of service aspects of GSM networks. These include voice transfer, SMS, cell broadcast service, location services and finally circuit switched data, and the more advanced high-speed circuit switched data.

WCDMA for UMTS Jul 18 2020 Highly regarded as the book on the air interface of 3G cellular systems WCDMA for UMTS has again been fully revised and updated. The third edition now covers the key features of 3GPP Release 6 ensuring it remains the leading principal resource in this constantly progressing area. By providing a deep understanding of the WCDMA air interface, the practical approach of this third edition will continue to appeal to operators, network and terminal manufacturers, service providers, university students and frequency regulators. Explains the key parts of the 3GPP/WCDMA standard Presents network dimensioning, coverage and capacity of WCDMA Introduces TDD and discusses its differences from FDD Key third edition updates include: Covers the main 3GPP Release 6 updates Further enhances High Speed Downlink Packet Access (HSDPA) chapter with a number of new simulation results Explains High Speed Uplink Packet Access (HSUPA) study item Introduces the new services including their performance analysis : Push-to-Talk over Cellular (PoC), streaming, See What I See (SWIS) and multiplayer games Presents a number of new WCDMA field measurement results: capacity, end-to-end performance and handovers Includes completely updated antenna beamforming and multiuser detection sections featuring new simulation results Introduces TD-SCDMA and compares it to Release TDD

Harmony Search and Nature Inspired Optimization Algorithms Oct 01 2021 The book covers different aspects of real-world applications of optimization algorithms. It provides insights from the Fourth International Conference on Harmony Search, Soft Computing and Applications held at BML Munjal University, Gurgaon, India on February 7–9, 2018. It consists of research articles on novel and newly proposed optimization algorithms; the theoretical study of nature-inspired optimization algorithms; numerically established results of nature-inspired optimization algorithms; and real-world applications of optimization algorithms and synthetic benchmarking of optimization algorithms.

Performance Optimization of IP Multimedia Subsystem Jun 28 2021 The IP Multimedia Subsystem (IMS) is the basic network architecture for Next Generation Networks (NGN) which is intended to bridge the divide between the traditional circuit switched and packet switched networks, thereby providing a single network capable of providing all service offerings. IMS is based on the IP infrastructure and it enables the convergence of data, speech and video on the same network platform. The IMS forms the basis of Fixed Mobile Convergence (FMC), where fixed-line operators are striving to provide mobile access and mobile operators are trying to provide fixed access. This is done to provide both services to a customer in a single device. The IMS is based on Session Initiation Protocol (SIP), which is a text-based protocol. The IMS will generally create additional signaling traffic in the IP based networks, so there is a need to take necessary precautions to minimize the signaling overload. This research is based on how the performance of the IMS can be improved by optimization of SIP as well as IMS elements. An analysis and characterization of the signaling traffic generated by IMS has been performed and how the signaling traffic can be reduced by the compression of SIP using the Burrows Wheeler Transform (BWT) has been explored. The queuing models of the IMS have been formulated and the mathematical approach has been used to find the impact of implementing the Hyper-Threading technology on the IMS Elements.

Communication Networks Jan 04 2022 Communication Networks: Principles and Practice is a simple and jargon-free presentation on the core concepts of networking. The book adopts a novel approach, wherein each chapter first details a particular concept of networking and then explains it using.

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