

Systematic Networking A Guide For Personal And Corporate Success

Multimedia data are used more and more widely in human being's life, e.g., videoconferencing, visual telephone, IPTV, etc. Nearly most of the applications need multimedia transmission techniques that send multimedia data from one side to another side and keep the properties of efficiency, robustness and security. Here, the efficiency denotes the time cost of transmission operations, the robustness denotes the ability to survive transmission errors or noises, and the security denotes the protection of the transmitted media content. Recently, various intelligent or innovative techniques are invented, which bring vast performance improvements to practical applications. For example, such content transmission techniques as p2p, sensor network and ad hoc network are constructed, which adaptively use the peers' properties to improve the network's resources. Multimedia adaptation techniques can adjust the multimedia data rate in order to compliant with the network's bandwidth. Scalable encryption techniques can generate the data stream that can be correctly decrypted after bit rate conversion. Ubiquitous multimedia services make the user share any kind of content anywhere. The book includes

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fourteen chapters highlighting current concepts, issues and emerging technologies. Distinguished scholars from many prominent research institutions around the world contribute to the book. The book covers various aspects, including not only some fundamental knowledge and the latest key techniques, but also typical applications and open issues. For example, the covered topics include the present and future video coding standards, stereo and multiview coding techniques, free-viewpoint TV techniques, wireless broadcasting techniques, media streaming techniques, wireless media transmission techniques and systems, and User-Generated Content sharing.

As networks, devices, and systems continue to evolve, software engineers face the unique challenge of creating reliable distributed applications within frequently changing environments. C++ Network Programming, Volume 1, provides practical solutions for developing and optimizing complex distributed systems using the ADAPTIVE Communication Environment (ACE), a revolutionary open-source framework that runs on dozens of hardware platforms and operating systems. This book guides software professionals through the traps and pitfalls of developing efficient, portable, and flexible networked applications. It explores the inherent design complexities of concurrent networked applications and the tradeoffs that must

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be considered when working to master them. C++ Network Programming begins with an overview of the issues and tools involved in writing distributed concurrent applications. The book then provides the essential design dimensions, patterns, and principles needed to develop flexible and efficient concurrent networked applications. The book's expert author team shows you how to enhance design skills while applying C++ and patterns effectively to develop object-oriented networked applications. Readers will find coverage of: C++ network programming, including an overview and strategies for addressing common development challenges The ACE Toolkit Connection protocols, message exchange, and message-passing versus shared memory Implementation methods for reusable networked application services Concurrency in object-oriented network programming Design principles and patterns for ACE wrapper facades With this book, C++ developers have at their disposal the most complete toolkit available for developing successful, multiplatform, concurrent networked applications with ease and efficiency.

This is an educational resource that will help massage therapists, physical therapists, chiropractors medical doctors, psychologists and other health professionals who care for people with musculoskeletal pain.

You have a great idea for a new business, but you're

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unsure about how to begin. You dream of the independence of being your own boss. In today's tough job market, starting your own business can be the best way to get the autonomy, security, and recognition you deserve. This all new, second edition contains the most up-to-date, practical information available on issues in health care, nursing, technology, business, politics, and finance. Successful health care entrepreneurs discuss their challenges and accomplishments and offer step-by-step methods for ventures in clinical practices, consulting, home care, product support, and much more.

Systematic Networking A Guide for Personal and Corporate Success Burns & Oates

"This book will examine how individuals and organizations are using Web 2.0 tools to create informal learning and professional development opportunities"-- Provided by publisher.

A powerful and insightful clinical resource for CBT practitioners who work with children and young adults The newly updated and thoroughly revised Second Edition of this companion to Think Good, Feel Good and Thinking Good, Feeling Better delivers guidance for clinicians using the author's seminal workbooks. This companion work builds upon the workbook materials by offering readers instruction on all aspects of the therapeutic process and a wide range of case studies highlighting

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specific therapies in action. A Clinician's Guide covers topics including parental involvement, key cognitive distortions in children, formulations, challenging thoughts, guided discovery, and the use of imagery. The author also includes a chapter focusing on common potential problems that arise in therapy and strategies to overcome them. The book highlights the underlying philosophy, process, and core skills of employing CBT with children and young people. Readers will appreciate the competency framework, which describes the CORE philosophy, PRECISE process, and the ABCs of specific techniques. The book also includes: Additional materials and handouts for use in therapy, including psycho-educational materials for children and parents on common problems, like depression, OCD, PTSD, and anxiety Downloadable, multi-use worksheets for use in the clinician's therapeutic sessions Practical, real-world case examples that shed light on the techniques and strategies discussed in the book A systematic approach to the use of cognitive behavioural therapy to treat common psychological problems Perfect for professionals and trainees in child and adolescent mental health, like psychiatrists, clinical psychologists, educational psychologists, community psychiatric nurses, and occupational therapists, the book also belongs on the shelves of non-mental health professionals, including school nurses and

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social workers, who regularly work with children in a therapeutic setting.

Here is a complete guide for librarians seeking to launch or refine their systematic review services. Conducting searches for systematic reviews goes beyond expert searching and requires an understanding of the entire process of the systematic review. Just as expert searching is not fully mastered by the end of a library degree, mastering the systematic review process takes a great deal of time and practice. Attending workshops and webinars can introduce the topic, but application of the knowledge through practice is required. Running a systematic review service is complicated and requires constant updating and evaluation with new standards, more efficient methods, and improved reporting guidelines. After a brief introduction to systematic reviews, the book guides librarians in defining and marketing their services, covering topics such as when it is appropriate to ask for co-authorship and how to reach out to stakeholders. Next, it addresses developing documentation and conducting the reference interview. Standards specific to systematic reviews, including PRISMA, Institute of Medicine, and Cochrane Collaboration, are discussed. Search strategy techniques, including choosing databases, harvesting search terms, selecting filters, and searching for grey literature are detailed. Data management and critical appraisal are covered in

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detail. Finally, the best practices for reporting the findings of systematic reviews are highlighted. Experts with experience in both systematic reviews and librarianship, including the editors of the book, contributed to the chapters. Each step (or piece) of the review process (Planning the review, Identifying the studies, Evaluating studies, Collecting and combining data, Explaining the results, and Summarizing the review into a report), are covered with emphasis on information roles. The book is for any librarian interested in conducting reviews or assisting others with reviews. It has several applications: for training librarians new to systematic reviews, for those developing a new systematic review service, for those wanting to establish protocols for a current service, and as a reference for those conducting reviews or running a service. Participating in systematic reviews is a new frontier of librarianship, in which librarians can truly become research partners with our patrons, instead of merely providing access to resources and services. “Dawn gave us the tools we needed to take the exam, and let me tell you - she was on point! Not only did she cover the content areas we needed to focus in on, but she also showed us how to read and interpret the questions on the exam.” —Ammu D. Kowolik, LMSW, McSilver Institute for Poverty Policy and Research Students and social workers preparing for the social work masters licensure exam

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will find an invaluable study resource in the Social Work ASWB® Masters Exam Guide. Written by a prominent social work leader and trainer for social work licensing exams in the United States, this guide is based on years of time-tested exam prep workshops conducted by the author. It mirrors the ASWB Masters “Knowledge, Skills, and Abilities” upon which the exam is based and incorporates information from the DSM-5®. The guide is comprehensive yet focuses on the material most likely to be included on the exam, so readers can prioritize information as they study. A self-assessment section helps identify strengths and weaknesses before tackling the material. The author shares her extensive knowledge of the exam by providing useful test-taking strategies and tips for overcoming test anxiety. The 170-question practice test at the end of the guide (with explanations of the correct answers) mirrors the actual exam in both length and structure. Content includes human development, diversity, abuse and neglect, assessment and intervention planning, direct and indirect (micro and macro) practice, and professional values and ethics. This book will be a valuable asset for social workers throughout the United States and Canada. Key Features: Developed by a highly respected educator of social work licensure candidates Covers all the content areas on the masters examination, including new content added

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in 2015 Begins with a self-assessment section to help identify areas of strength and weakness Offers a wealth of test-taking tips and strategies to foster exam confidence Includes a practice test (with explanations of the correct answers) that mirrors the exam ASWB® is a registered service mark of the Association of Social Work Boards, which neither sponsors nor endorses this product.

Applied Network Security Monitoring is the essential guide to becoming an NSM analyst from the ground up. This book takes a fundamental approach to NSM, complete with dozens of real-world examples that teach you the key concepts of NSM. Network security monitoring is based on the principle that prevention eventually fails. In the current threat landscape, no matter how much you try, motivated attackers will eventually find their way into your network. At that point, it is your ability to detect and respond to that intrusion that can be the difference between a small incident and a major disaster. The book follows the three stages of the NSM cycle: collection, detection, and analysis. As you progress through each section, you will have access to insights from seasoned NSM professionals while being introduced to relevant, practical scenarios complete with sample data. If you've never performed NSM analysis, Applied Network Security Monitoring will give you an adequate grasp on the core concepts needed to become an effective

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analyst. If you are already a practicing analyst, this book will allow you to grow your analytic technique to make you more effective at your job. Discusses the proper methods for data collection, and teaches you how to become a skilled NSM analyst Provides thorough hands-on coverage of Snort, Suricata, Bro-IDS, SiLK, and Argus Loaded with practical examples containing real PCAP files you can replay, and uses Security Onion for all its lab examples Companion website includes up-to-date blogs from the authors about the latest developments in NSM In an uncertain and complex world leaders should not merely respond to the speed of change but attempt to anticipate it. Sometimes it is unexpected, sometimes the signs are there but the dots are not joined together. The NEW normal must be navigated, negotiated, networked and a narrative built around it. Leaders need to adapt to a changing ecosystem in which the biggest challenges cross the boundaries of the public, private and non-profit sectors, requiring much closer collaboration. Aggressive individualism is no longer a sustainable basis for companies needing to deliver social and economic value, now, enterprises must move beyond narrow self-interest and short-termism to balance stakeholder expectations. In Reframing the Leadership Landscape, Dr Roger Hayes and Dr Reginald Watts argue that the interconnected and interdependent world requires leaders to adopt a

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more holistic and inclusive approach. Despite global business education advances, business mostly fails to make cross-disciplinary connections or interpret weak signals and is ill-prepared for changes in cultural and technical demands. The tool kit is here, ready to be unpacked. The only question is whether aspirant leaders are sensitive enough to read the signals and develop the skills needed to create an essential collaborative paradigm, which they must do if they wish to regain trust, fill the leadership void and help reshape a sustainable future.

A two-time AJN Book of the Year Award winner and a 2013 Doody Core Title! This distinguished text provides top-tier guidance for advanced practice nurses on how to perform a comprehensive systematic review of available research to inform scholarly work, particularly in DNP and PhD programs. With a strategic focus on the search process and assessing the quality of the evidence, this text presents, clearly and comprehensively, all of the knowledge and skills necessary to conduct a foundational CSR in eight concrete steps. This text examines how to write a CSR proposal, final report, and a policy brief based on systematic review findings. Two finished proposals and two completed systematic reviews demonstrate each step of the process from start to finish. Additionally, the text covers software used in research queries and provides helpful strategies for effectively using the

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search function when seeking information. The Third Edition offers four new chapters with incisive recommendations for performing a CSR and addressing new ways CSR is being implemented in today's healthcare environment. It describes the latest methodological advances, including living systematic reviews and dominance scores for economic review. Two complete CSRs along with new and updated examples throughout the book further aid readers in their pursuit of excellence in scholarly work. New to the Third Edition: New Chapters: How to choose the right critical appraisal tool Writing the final report and disseminating the results of systematic reviews Disseminating results with how to write a policy brief and/or press release on CSR results Example of a meta-analysis using GRADE Offers increased focus on dissemination Includes new and updated examples reflecting latest trends in nursing scholarly work Key Features: Provides the knowledge and skills necessary to conduct a CSR from start to finish Teaches readers how to conduct high-quality systematic reviews Instructs readers on pertinent resources and methods for optimal library-related systematic review research efforts Describes how to best search research databases to facilitate scholarly work Includes objectives, summary points, end-of-chapter exercises, discussion questions, suggested reading, and references to enhance understanding

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The AMA Manual of Style is a must-have resource for anyone involved in medical, health, and scientific publishing. Written by an expert committee of JAMA Network editors, this latest edition addresses issues that face authors, editors, and publishers in the digital age. Extensive updates are included in the References chapter, with examples of how to cite digital publications, preprints, databases, data repositories, podcasts, apps and interactive games, and social media. Full-color examples grace the chapter on data display, with newer types of graphic presentations and updated guidance on formatting tables and figures. The manual thoroughly covers ethical and legal issues such as authorship, conflicts of interest, scientific misconduct, intellectual property, open access and public access, and corrections. The Usage chapter has been revised to bring the manual up-to-date on word choice, especially in writing about individuals with diseases or conditions and from various socioeconomic, racial/ethnic, and sexual orientation populations. Specific nomenclature entries in many disciplines are presented to guide users in issues of diction, formatting, and preferred terminology. Guidance on numbers, SI units, and math has been updated, and the section on statistics and study design has undergone a major expansion. In sum, the answer to nearly any issue facing a writer or editor in medicine, health care, and related disciplines can be found in

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the 11th edition of the AMA Manual of Style.

Available for institutional purchase or subscription or individual subscription. Visit AMAManualofStyle.com or contact your sales rep for more details.

IP in Wireless Networks is the first network professional's guide to integrating IP in 2G, 2.5G, and 3G wireless networks. It delivers systematic, expert implementation guidance for every leading wireless network, including 802.11, Bluetooth, GSM/GPRS, W-CDMA, cdma2000, and i-mode. In-depth coverage encompasses architecture, technical challenges, deployment and operation strategies, mobility models, routing, and applications. The book presents future evolution of the Wireless IP Networks with emerging applications and the role of standardization bodies.

Updated for the Latest CCNA Exam Here's the book you need to prepare for Cisco's revised CCNA exam, 640-801. This new edition of the best-selling CCNA Study Guide provides: In-depth coverage of every CCNA exam objective Practical information on Cisco internetworking solutions Hundreds of challenging review questions Leading-edge exam preparation software, including a test engine, sample simulation questions, and electronic flashcards Authoritative coverage of all exam objectives, including: Network planning & designing Implementation & operation LAN and WAN troubleshooting Note: CD-ROM/DVD and other supplementary materials are not included

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as part of eBook file.

The definitive guide to designing and deploying Cisco IP multicast networks Clear explanations of the concepts and underlying mechanisms of IP multicasting, from the fundamentals to advanced design techniques Concepts and techniques are reinforced through real-world network examples, each clearly illustrated in a step-by-step manner with detailed drawings Detailed coverage of PIM State Rules that govern Cisco router behavior In-depth information on IP multicast addressing, distribution trees, and multicast routing protocols Discussions of the common multimedia applications and how to deploy them Developing IP Multicast Networks, Volume I, covers an area of networking that is rapidly being deployed in many enterprise and service provider networks to support applications such as audio and videoconferencing, distance learning, and data replication. The concepts used in IP multicasting are unlike any other network protocol, making this book a critical tool for networking professionals who are implementing this technology. This book provides a solid foundation of basic IP multicast concepts, as well as the information needed to actually design and deploy IP multicast networks. Using examples of common network topologies, author Beau Williamson discusses the issues that network engineers face when trying to manage traffic flow. Developing IP Multicast

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Networks, Volume I, includes an in-depth discussion of the PIM protocol used in Cisco routers and detailed coverage of the rules that control the creation and maintenance of Cisco mroute state entries. The result is a comprehensive guide to the development and deployment of IP multicast networks using Cisco routers and switches. Concise, Accessible Coverage of All CCNA Objectives for Exam 640-801 Two Bonus Exams on the CD Written by Todd Lammle, the Leading Authority on Cisco Internetworking From the author of Sybex's best-selling CCNA: Cisco Certified Network Associate Study Guide comes the streamlined tool you need to hone in on critical CCNA information: CCNA Fast Pass. The enclosed CD lets you practice, practice, practice so you can approach the exam with confidence. Coverage includes: Designing Cisco internetworks Developing an access list Evaluating TCP/IP communication Configuring routers and switches Configuring IP addresses, subnet masks, and gateway addresses Performing LAN, VLAN, and WAN troubleshooting Understanding rules for packet control Featured on the CD The enclosed CD features two CCNA practice exams covering all exam objectives. You also get 100 electronic flashcards for PCs, Pocket PCs, and Palm handhelds, plus a glossary of key terms. Note: CD-ROM/DVD and other supplementary materials are not included as part of

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eBook file.

This book addresses a wide range of topics, from the principles of evidence-based practice to the process and dissemination of research to unique considerations such as clinical trials, patenting, and health services research. The case for evidence-based practice and a collaborative research culture is made first, followed by a series of chapters walking the reader through the research process by way of the scientific method. One of the more unique aspects of the scope of this book is the inclusion of chapters relating to the dissemination of knowledge, manuscript publication, and how to build an academic research program. Each chapter focuses on introducing the reader to foundational principles, methodology, and terminology, and highlight case studies of radiation therapist research or experience that is relevant to provide contextual examples and inspiration to the reader.

The harvesting of energy from ambient energy sources to power electronic devices has been recognized as a promising solution to the issue of powering the ever-growing number of mobile devices around us. Key technologies in the rapidly growing field of energy harvesting focus on developing solutions to capture ambient energy surrounding the mobile devices and convert it into usable electrical energy for the purpose of recharging said devices. Achieving a sustainable network lifetime via battery-

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aware designs brings forth a new frontier for energy optimization techniques. These techniques had, in their early stages, resulted in the development of low-power hardware designs. Today, they have evolved into power-aware designs and even battery-aware designs. This book covers recent results in the field of rechargeable sensor networks, including technologies and protocol designs to enable harvesting energy from alternative energy sources such as vibrations, temperature variations, wind, solar, and biochemical energy and passive human power. Contents: Wind Energy Harvesting for Recharging Wireless Sensor Nodes: Brief Review and a Case Study (Yen Kheng Tan, Dibin Zhu and Steve Beeby) Rechargeable Sensor Networks with Magnetic Resonant Coupling (Liguang Xie, Yi Shi, Y Thomas Hou, Wenjing Lou, Hanif D Sherali and Huaibei Zhou) Cross-Layer Resource Allocation in Energy-Harvesting Sensor Networks (Zhoujia Mao, C Emre Koksall and Ness B Shroff) Energy-Harvesting Technique and Management for Wireless Sensor Networks (Jianhui Zhang and Xiangyang Li) Information Capacity of an AWGN Channel Powered by an Energy-Harvesting Source (R Rajesh, P K Deekshith and Vinod Sharma) Energy Harvesting in Wireless Sensor Networks (Nathalie Mitton and Riaan Wolhuter) Topology Control for Wireless Sensor Networks and Ad Hoc Networks (Sunil Jardosh) An Evolutionary Game Approach for

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Rechargeable Sensor Networks (Majed Haddad, Eitan Altman, Dieter Fiems and Julien Gaillard) Marine Sediment Energy Harvesting for Sustainable Underwater Sensor Networks (Baikun Li, Lei Wang and Jun-Hong Cui) Wireless Rechargeable Sensor Networks in the Smart Grid (Melike Erol-Kantarci and Hussein T Mouftah) Energy-Harvesting Methods for Medical Devices (Pedro Dinis Gaspar, Virginie Felizardo and Nuno M Garcia)

Readership: Graduates, researchers, and professionals studying/dealing with networking, computer engineering, parallel computing, and electrical & electronic engineering.

Keywords: Rechargeable Sensor; Energy Harvesting Technology; Renewable Sensor Networks

Key Features: This book provides comprehensive coverage from hardware design, protocol design, to applications. This book provides very recent results. And this book has prominent contributors. With the increasing deterioration of global warming, energy harvesting technologies as a green source of energy are of great interest to research community. For wireless networks especially wireless sensor networks, the introduction of energy harvesting technologies can address the challenge of energy constraint and obtain perpetual network operation. Although there are lots of existing publications on energy harvesting, most of them are journal and conference papers, which concentrate on specific

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research problems and do not provide a comprehensive overview and prerequisite preliminaries to understand the energy harvesting technologies. To the best of our knowledge, there are only a few books which are concerned with energy harvesting technologies. One main drawback of these books are that they all elaborate on the hardware design of energy harvesting devices but neglect the impact of hardware design on the performance of overall networks which is also of great significance in practice. For example, the energy management subsystem should be designed to fulfill all the tasks without running out of energy, which is dependent on the available energy of each node and all the tasks of the whole networks. Hence, the algorithm and protocol optimization are as important as hardware design. But this was not elaborated in existing publications and motivates this book

Healthcare providers, consumers, researchers and policy makers are inundated with unmanageable amounts of information, including evidence from healthcare research. It has become impossible for all to have the time and resources to find, appraise and interpret this evidence and incorporate it into healthcare decisions. Cochrane Reviews respond to this challenge by identifying, appraising and synthesizing research-based evidence and presenting it in a standardized format, published in

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The Cochrane Library

(www.thecochranelibrary.com). The Cochrane Handbook for Systematic Reviews of Interventions contains methodological guidance for the preparation and maintenance of Cochrane intervention reviews. Written in a clear and accessible format, it is the essential manual for all those preparing, maintaining and reading Cochrane reviews. Many of the principles and methods described here are appropriate for systematic reviews applied to other types of research and to systematic reviews of interventions undertaken by others. It is hoped therefore that this book will be invaluable to all those who want to understand the role of systematic reviews, critically appraise published reviews or perform reviews themselves. Some people treat networking events like a pick up bar. Get as many "numbers" as you can. Hope you can "score" with one or two. Wonder why it seemed like such a great connection at the event; however, now he or she won't return your phone call. Tish Times teaches you how to scrap the pick up bar approach as she introduces you to a higher echelon of networking and sales. In this book, you will learn how to speed up your results by cultivating lasting, revenue-generating relationships. Systematic Methods for Analyzing Culture is a practical manual that provides step-by-step instruction for collecting and analyzing cultural data.

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This compact guide explains complex topics in straightforward and practical terms, via research examples, textual and visual software guides, and hands-on exercises. Through each chapter's introductory examples, the manual illustrates how socially learned knowledge provides group members with shared understandings of the world, which allow for mutually intelligible interactions. The authors then carefully walk readers through the process of eliciting those socially learned, shared, and thus cultural representations of reality, which structure the thinking and practice of individuals inhabiting social groups. Specifically, the book shows how researchers can elicit such thought and behavior via methods such as free lists, pile sorts, cultural consensus and consonance analysis, textual analysis, and personal network research. The book will help both undergraduate and graduate students identify ways to unpack the "black box" of culture, which may be absent or given only cursory attention within their training and respective fields. The book's clear and systematic step-by-step walkthroughs of each method will also encourage more established researchers, educators, and practitioners—from diverse fields and with varying levels of experience—to integrate techniques for assessing cultural processes into their research, teaching, and practice.

This new edition of *A Clinician's Guide to Systemic*

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Sex Therapy integrates the latest empirical research from the field of sex therapy and demonstrates how clinicians can optimize their treatment for a wide range of clients. Grounded in the Intersystem Approach, the book incorporates the multifaceted perspectives of the individual client, couple, or family. It considers every domain of assessment and treatment: biology, psychology, the intimate relationship, family-of-origin, and larger contextual factors contributing to any sexual/relational issue. This revised edition contains 13 chapters consistent with the DSM-5 definitions of sexual disorders and features new content on areas including LGBTQ+ issues, non-monogamous relationships, intersex clients, and an increased focus on issues surrounding sexual diversity. The authors of this award-winning text have set out a cutting-edge framework for clinicians looking to develop a comprehensive understanding of sexual issues, which will be an essential reference point for beginning and seasoned therapists alike. One of the first books to provide a comprehensive description of OPNET® IT Guru and Modeler software, The Practical OPNET® User Guide for Computer Network Simulation explains how to use this software for simulating and modeling computer networks. The included laboratory projects help readers learn different aspects of the software in a hands-on way. Quickly Locate Instructions for

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Performing a Task The book begins with a systematic introduction to the basic features of OPNET, which are necessary for performing any network simulation. The remainder of the text describes how to work with various protocol layers using a top-down approach. Every chapter explains the relevant OPNET features and includes step-by-step instructions on how to use the features during a network simulation. Gain a Better Understanding of the "Whats" and "Whys" of the Simulations Each laboratory project in the back of the book presents a complete simulation and reflects the same progression of topics found in the main text. The projects describe the overall goals of the experiment, discuss the general network topology, and give a high-level description of the system configuration required to complete the simulation. Discover the Complex Functionality Available in OPNET By providing an in-depth look at the rich features of OPNET software, this guide is an invaluable reference for IT professionals and researchers who need to create simulation models. The book also helps newcomers understand OPNET by organizing the material in a logical manner that corresponds to the protocol layers in a network.

GUIDE TO NETWORK DEFENSE AND COUNTERMEASURES provides a thorough guide to perimeter defense fundamentals, including intrusion detection and firewalls. This trusted text also covers

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more advanced topics such as security policies, network address translation (NAT), packet filtering and analysis, proxy servers, virtual private networks (VPN), and network traffic signatures. Thoroughly updated, the new third edition reflects the latest technology, trends, and techniques including virtualization, VMware, IPv6, and ICMPv6 structure, making it easier for current and aspiring professionals to stay on the cutting edge and one step ahead of potential security threats. A clear writing style and numerous screenshots and illustrations make even complex technical material easier to understand, while tips, activities, and projects throughout the text allow you to hone your skills by applying what you learn. Perfect for students and professionals alike in this high-demand, fast-growing field, **GUIDE TO NETWORK DEFENSE AND COUNTERMEASURES, Third Edition**, is a must-have resource for success as a network security professional. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. A systematic, innovative introduction to the field of network analysis, **Network Psychometrics with R: A Guide for Behavioral and Social Scientists** provides a comprehensive overview of and guide to both the theoretical foundations of network psychometrics as well as modelling techniques developed from this perspective. Written by pioneers in the field, this textbook showcases cutting-edge methods in an easily accessible format, accompanied by problem sets and code. After working through this book, readers will be able to understand the theoretical foundations behind network

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modelling, infer network topology, and estimate network parameters from different sources of data. This book features an introduction on the statistical programming language R that guides readers on how to analyse network structures and their stability using R. While *Network Psychometrics with R* is written in the context of social and behavioral science, the methods introduced in this book are widely applicable to data sets from related fields of study. Additionally, while the text is written in a non-technical manner, technical content is highlighted in textboxes for the interested reader. *Network Psychometrics with R* is ideal for instructors and students of undergraduate and graduate level courses and workshops in the field of network psychometrics as well as established researchers looking to master new methods.

Includes a free mobile & web app! “Dawn gave us the tools we needed to take the exam, and let me tell you—she was on point! Not only did she cover the content areas we needed to focus in on, but she also showed us how to read and interpret the questions on the exam.” —Ammu D. Kowolik, LMSW, McSilver Institute for Poverty Policy and Research Students and social workers preparing for the social work clinical licensure exam will find an invaluable study resource in the *Social Work ASWB® Clinical Exam Guide*. Written by a prominent social work leader and trainer for social work licensing exams in the United States, this guide is based on years of time-tested exam prep workshops conducted by the author. It mirrors the ASWB Clinical “Knowledge, Skills, and Abilities” upon which the exam

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is based and incorporates information from the DSM®-5. The guide is comprehensive yet focuses on the material most likely to be included on the exam, so readers can prioritize information as they study. A self-assessment section helps identify strengths and weaknesses before tackling the material. The author shares her extensive knowledge of the exam by providing useful test-taking strategies and tips for overcoming test anxiety. The 170-question practice test at the end of the guide (with explanations of the correct answers) mirrors the actual exam in both length and structure. Content includes human development, human behavior in the environment, diversity, addictions, assessment and diagnosis, treatment planning, clinical interventions, case management, and professional values and ethics. This book will be a valuable asset for social workers throughout the United States and Canada. Key Features: Developed by a highly respected educator of social work licensure candidates Covers all the content areas on the clinical examination, including new content added in 2015 Begins with a self-assessment section to help identify areas of strength and weakness Offers a wealth of test-taking tips and strategies to foster exam confidence Includes a practice test (with explanations of the correct answers) that mirrors the exam ASWB is a registered service mark of the Association of Social Work Boards, which neither sponsors nor endorses this product.

This book deals with continuous time dynamic neural networks theory applied to the solution of basic problems in robust control theory, including identification, state

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space estimation (based on neuro-observers) and trajectory tracking. The plants to be identified and controlled are assumed to be a priori unknown but belonging to a given class containing internal unmodelled dynamics and external perturbations as well. The error stability analysis and the corresponding error bounds for different problems are presented. The effectiveness of the suggested approach is illustrated by its application to various controlled physical systems (robotic, chaotic, chemical, etc.).

Leading authorities deliver the commandments for designing high-speed networks There are no end of books touting the virtues of one or another high-speed networking technology, but until now, there were none offering networking professionals a framework for choosing and integrating the best ones for their organization's networking needs. Written by two world-renowned experts in the field of high-speed network design, this book outlines a total strategy for designing high-bandwidth, low-latency systems. Using real-world implementation examples to illustrate their points, the authors cover all aspects of network design, including network components, network architectures, topologies, protocols, application interactions, and more.

This volume brings together a range of contributors from Europe and North America. All contributions were especially commissioned with a view to e- cidating a major multidisciplinary topic that is of concern to both academics and practitioners. The focus of the book is on expert judgment and its interaction with decision support systems. In the first part, the nature of expertise is

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discussed and characteristics of expert judges are described. Issues concerned with the evaluation of judgment in the psychological laboratory are assessed and contrasted with studies of expert judgment in ecologically valid contexts. In addition, issues concerned with eliciting and validating expert knowledge are discussed. Demonstrations of good judgmental performance are linked to situational factors such as feedback cycles, and measurement of coherence and reliability in expert judgment is introduced as a baseline determinant of good judgmental performance. Issues concerned with the representation of elicited expert knowledge in knowledge-based systems are evaluated and methods are described that have been shown to produce improvements in judgmental performance. Behavioral and mathematical ways of combining judgments from multiple experts are compared and contrasted. Finally, the issues developed in the preceding contributions are focused on current controversies in decision support. Expert judgment is utilized as a major input into decision analysis, forecasting with statistical models, and expert systems. In order to satisfy the needs of their customers, network utilities require specially developed maintenance management capabilities. Maintenance Management information systems are essential to ensure control, gain knowledge and improve decision making in companies dealing with network infrastructure, such as distribution of gas, water, electricity and telecommunications. Maintenance Management in Network Utilities studies specified characteristics of maintenance management in

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this sector to offer a practical approach to defining and implementing the best management practices and suitable frameworks. Divided into three major sections, Maintenance Management in Network Utilities defines a series of stages which can be followed to manage maintenance frameworks properly. Different case studies provide detailed descriptions which illustrate the experience in real company situations. An introduction to the concepts is followed by main sections including:

- A Literature Review: covering the basic concepts and models needed for framework design, development and implementation.
- Framework Design and Definition: developing the basic pillars of network utilities maintenance management framework.
- Performance Evaluation & Maturity: focusing on the reliability concept and maturity models from different viewpoints.

By establishing basic foundations for creating and maintaining maintenance managements strategies, Maintenance Management in Network Utilities acts a practical handbook for all professionals in these companies and across areas such as network development, operations management and marketing. The Perfect CCNA Preparation and Review Tool From the author of Sybex's best-selling CCNA: Cisco Certified Network Associate Study Guide comes the streamlined tool you need to hone in on critical CCNA information: CCNA Fast Pass. The enclosed CD lets you practice, practice, practice so you can approach the exam with confidence. Coverage includes: Designing internetworks using Cisco technology Developing an access List Evaluating TCP/IP communication process Configuring

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routers and switches Configuring IP addresses, subnet masks, and gateway addresses Performing LAN, VLAN, and WAN troubleshooting Understanding rules for packet control Note:CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Written by a renowned social work educator rather than an unknown at a test preparation company, this thoroughly updated guide helps readers identify their weak areas so they know what to focus on to pass the 2018 ASWB® Advanced Generalist licensure exam! Reviewers applaud the book's unique test-taking tips and strategies which are based on the author's extensive knowledge of the exam. A thorough review of the four content areas of the updated 2018 Advanced Generalist exam is provided. The 170-question practice test with explanations of the correct answers mirrors the actual exam in length and structure. This invaluable guide has been praised by social workers across the country as essential to passing the ASWB® Advanced Generalist Exam on the first attempt! Highlights include: Updated to reflect ASWB's revised 2018 test blueprint used for test construction. Written by a renowned social work educator who has helped thousands of test takers pass the exam through her invaluable workshops. Provides a thorough content review of the four core areas of the updated 2018 Advanced Generalist examination: human development, diversity, and behavior in the environment; intervention processes and techniques for use across systems; intervention processes and techniques for use with larger systems; and professional relationships, values, and ethics. Readers applaud the invaluable tips for how to read the questions, overcome test anxiety, avoid common pitfalls, and assess one's learning style which help foster exam confidence. Begins with a self-assessment to help identify

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areas of strength and weakness. A full practice test with 170 questions that mirrors the actual ASWB® Advanced Generalist Exam in length, structure, and content, with detailed explanations of the correct answers. Identifies the Knowledge, Skills, and Abilities statements (KSAs) for each question so test-takers can easily locate relevant source materials for further study. Questions are distinct from those in the author's Social Work ASWB® Advanced Generalist Practice Test.

Start your preparation for Cisco's new CCENT entry-level networking certification, your entry point into Cisco's popular CCNA certification track. This comprehensive study guide from leading Cisco authority Todd Lammle thoroughly prepares you for the Interconnecting Cisco Networking Devices, Part 1 exam (640-822) and the start of a career, with pages of exam essentials, real-world scenarios, and hands-on exercises. Topics include the operation of data networks, how to implement both switched and routed networks, and much more. For Instructors: Teaching supplements are available for this title.

Drawing on pentecostal experience of growing church networks, this book offers a systematic ecclesiology that provides a fresh approach to catholicity, church structures, partnership and contextualisation.

In resource poor, cost saving times, this book provides practical advice on new methods and technologies involved in systematic searching and explores the role of information professionals in delivering these changes The editors bring together expert international practitioners and researchers to highlight the latest thinking on systematic searching. Beginning by looking at the methods and techniques underlying systematic searching, the book then examines the current challenges and the potential solutions to more effective searching in detail, before considering the role of the

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information specialist as an expert searcher. Systematic Searching blends theory and practice and takes into account different approaches to information retrieval with a special focus being given to searching for complex topics in a health-related environment. The book does not presume an in-depth prior knowledge or experience of systematic searching and includes case studies, practical examples and ideas for further research and reading. The book is divided into three parts: Methods covers theoretical approaches to evidence synthesis and the implications that these have for the search process, including searching for complex topics and choosing the right sources. Technology examines new technologies for retrieving evidence and how these are leading to new directions in information retrieval and evidence synthesis. People considers the future of the information specialist as an expert searcher and explores how information professionals can develop their skills in searching, communication and collaboration to ensure that information retrieval practice is, and remains, evidence-based. Systematic Searching will be essential reading for library and information service providers and information specialists, particularly those in a health-related environment. It will also be of interest to students of library and information science, systematic reviewers, researchers and practitioners conducting complex searches in settings including social care, education and criminal justice.

Networking has a variety of meanings, but is essentially about building relationships in order to exchange information and provide mutual support to aid decision-making, and create lasting customers, partners and alliances.

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