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*Foundations of Modern Networking Power Quality Switchmode RF and Microwave Power Amplifiers Don't Click on the Blue E! Switchmode RF Power Amplifiers Proceedings, IEEE International Conference on Computer Design, VLSI in Computers Stabilization of Switched Nonlinear Systems with Unstable Modes An Introduction to Broadband Networks Semiconductor Power Devices Combinatorics of Spreads and Parallelisms Solid State Radio Engineering Ccna Routing and Switching Portable Command Guide Economic Evaluation and Investment Decision Methods Code of Federal Regulations Demyelinating Disorders of the Central Nervous System in Childhood Bilingual Speech Mental Health Nursing Fundamentals of Telecommunications Accounting for Financial Statement Presentation Choice Urban Water Crisis and Management Railroad Accounts and Statistics RF Power Amplifiers for Wireless Communications At the Network's Edge Power System Protection and Switchgear Handbook of RF and Microwave Power Amplifiers PAIS Subject Headings Meningococcal Disease Object Design Style Guide CCIE Routing and Switching Certification Guide Electromechanical Motion Devices Introducing Routing and Switching in the Enterprise, CCNA Discovery Learning Guide Electric Drives Maintenance of Radar Microwave Link (RML) Equipment Designing Logic Systems Using State Machines Inferring Phylogenies High-Power Converters and AC Drives The Twenty-First-Century Media Industry Contemporary Approaches and Methods in Fundamental Mathematics and Mechanics Battery Operated Devices and Systems*

This book provides an in depth analysis of the different ways in which bilingual speakers switch from one language to another in the course of conversation. This phenomenon, known as code-mixing or code-switching, takes many forms. Pieter Muysken adopts a comparative approach to distinguish between the different types of code-mixing, drawing on a wealth of data from bilingual settings throughout the world. His study identifies three fundamental and distinct patterns of mixing - 'insertion', 'alternation' and 'congruent lexicalization' - and sets out to discover whether the choice of a particular mixing strategy depends on the contrasting grammatical properties of the languages involved, the degree of bilingual competence of the speaker or various social factors. The book synthesizes a vast array of recent research in a rapidly growing field of study which has much to reveal about the structure and function of language. Combinatorics of Spreads and Parallelisms covers all known finite and infinite parallelisms as well as the planes comprising them. It also presents a complete analysis of general spreads and partitions of vector spaces that provide groups enabling the construction of subgeometry partitions of projective spaces. The book describes general partitions A comprehensive reference of the latest developments in MV drive technology in the area of power converter topologies This new edition reflects the recent technological advancements in the MV drive industry, such as advanced multilevel converters and drive configurations. It includes three new chapters, Control of Synchronous Motor Drives, Transformerless MV Drives, and Matrix Converter Fed Drives. In addition, there are extensively revised chapters on Multilevel Voltage Source Inverters and Voltage Source Inverter-Fed Drives. This book includes a systematic analysis on a variety of high-power multilevel converters, illustrates important concepts with simulations and experiments, introduces various megawatt drives produced by world leading drive manufacturers, and addresses practical problems and their mitigations methods. This new edition: Provides an in-depth discussion and analysis of various control schemes for the MV synchronous motor drives Examines new technologies developed to eliminate the isolation transformer in the MV drives Discusses the operating principle and modulation schemes of matrix converter (MC) topology and multi-module cascaded matrix converters (CMCs) for MV drives, and their application in commercial MV drives Bin Wu is a Professor and Senior NSERC/Rockwell Automation Industrial Research Chair in Power Electronics and Electric Drives at Ryerson University, Canada. He is a fellow of Institute of Electrical and Electronics Engineers (IEEE), Engineering Institute of Canada (EIC), and Canadian Academy of Engineering (CAE). Dr. Wu has published more than 400 papers and holds more than 30 granted/pending US/European patents. He co-authored several books including Power Conversion and Control of Wind Energy Systems and Model Predictive Control of Wind Energy Conversion Systems (both by Wiley-IEEE Press). Mehdi Narimani is a Postdoctoral Research Associate with the Department of Electrical and computer Engineering at Ryerson University, Canada, and Rockwell Automation Canada. He is a senior member of IEEE. Dr. Narimani is author/co-author of more than 50 technical papers and four US/European patents (issued/pending review). His current research interests include power conversion, high power converters, control of power electronics, and renewable energy systems. For course review on a specific topic, e.g., psychiatric nursing, review for NCLEX-RN, and review for specialty training. This resource provides a core content review of the subject in outline format. Each chapter opens with a brief outline, objectives, key terms with definitions, media box with summary of CD and CW content, as well as a pre-test. The pre-test and post-test guide the student through a self-paced review. Other features unique to this resource help further enhance the review process. This book provides its reader with a good understanding of the stabilization of switched nonlinear systems (SNS), systems that are of practical use in diverse situations: design of fault-tolerant systems in space- and aircraft; traffic control; and heat propagation control of semiconductor power chips. The practical background is emphasized throughout the book; interesting practical examples frequently illustrate the theoretical results with aircraft and spacecraft given particular prominence. Stabilization of Switched Nonlinear Systems with Unstable Modes treats several different subclasses of SNS according to the characteristics of the individual system (time-varying and distributed parameters, for example), the state composition of individual modes and the degree and distribution of instability in its various modes. Achievement and maintenance of stability across the system as a whole is bolstered by trading off between individual modes which may be either stable or unstable or by exploiting areas of partial stability within all the unstable modes. The book can be used as a reference for academic research on switched systems or used by graduate students of control theory and engineering. Readers should have studied linear and nonlinear system theory and have some knowledge of switched and hybrid systems to get the most from this monograph. Covers topics covered in the ICND1 100-101, ICND2 200-101, and CCNA 200-120 exams along with a summarization of commands, keywords, command augments, and associated prompts. The Second Edition of this critically-acclaimed text continues the standard of excellence set in the first edition by providing a thorough introduction to the fundamentals of telecommunication networks without bogging you down in complex technical jargon or math. Although focusing on the basics, the book has been thoroughly updated with the latest advances in the field, including a new chapter on metropolitan area networks (MANs) and new sections on Mobile Fi, ZigBee and ultrawideband. You'll learn which choices are now available to an organization, how to evaluate them and how to develop strategies that achieve the best balance among cost, security and performance factors for voice, data, and image communication. A majority of people now have a digital mobile device whether it be a cell phone, laptop, or blackberry. Now that we have the mobility we want it to be more versatile and dependable; RF power amplifiers accomplish just that. These amplifiers take a small input and make it stronger and larger creating a wider area of use with a more robust signal. Switching mode RF amplifiers have been theoretically possible for decades, but were largely impractical because they distort analog signals until they are unrecognizable. However, distortion is not an issue with digital signals—like those used by WLANs and digital cell phones—and switching mode RF amplifiers have become a hot area of RF/wireless design. This book explores both the theory behind switching mode RF amplifiers and design techniques for them. \*Provides essential design and implementation techniques for use in cma2000, WiMAX, and other digital mobile standards \*Both authors have written several articles on the topic and are well known in the industry \*Includes specific design equations to greatly simplify the design of switchmode amplifiers Battery Operated Devices and Systems provides a comprehensive review of the essentials of batteries and battery applications as well as state-of-the-art technological developments. The book covers the most recent trends, especially for the ubiquitous lithium ion batteries. It lays particular emphasis on the power consumption of battery operated devices and systems and the implications for battery life and runtime. Battery management is also dealt with in detail, particularly as far as the charging methods are concerned, along with the criteria of battery choice. This book describes a variety of portable and industrial applications and the basic characteristics of all primary and secondary batteries used in these applications. Portable applications include mobile phones, notebook computers, cameras, camcorders, personal digital assistants, medical instruments, power tools, and portable GPS. Industrial applications range from aerospace and telecommunications to emergency systems, load levelling, energy storage, toll collection, different meters, data loggers, oil drilling, oceanography, and meteorology. The book also discusses wireless connectivity, i.e. Wi-Fi, Bluetooth and Zigbee, and concludes with some market considerations. Links to further reading are provided through the 275 references. This book will be a valuable information source for researchers interested in devices and systems drawing power from batteries. It will also appeal to graduates working in research institutions; universities and industries dealing with power sources and energy conversion; civil, electrical and transport engineers; and chemists. A comprehensive review of battery applications Includes 209 figures and 62 tables Describes state-of-the-art technological developments Foundations of Modern Networking is a comprehensive, unified survey of modern networking technology and applications for today's professionals, managers, and students. Dr. William Stallings offers clear and well-organized coverage of five key technologies that are transforming networks: Software-Defined Networks (SDN), Network Functions Virtualization (NFV), Quality of Experience (QoE), the Internet of Things (IoT), and cloudbased services. Dr. Stallings reviews current network ecosystems and the challenges they face—from Big Data and mobility to security and complexity. Next, he offers complete, self-contained coverage of each new set of technologies: how they work, how they are architected, and how they can be applied to solve real problems. Dr. Stallings presents a chapter-length analysis of emerging security issues in modern networks. He concludes with an up-to date discussion of networking careers, including important recent changes in roles and skill requirements. Coverage: Elements of the modern networking ecosystem: technologies, architecture, services, and applications Evolving requirements of current network environments SDN: concepts, rationale, applications, and standards across data, control, and application planes OpenFlow, OpenDaylight, and other key SDN technologies Network functions virtualization: concepts, technology, applications, and software defined infrastructure Ensuring customer Quality of Experience (QoE) with interactive video and multimedia network traffic Cloud networking: services, deployment models, architecture, and linkages to SDN and NFV IoT and fog computing in depth: key components of IoT-enabled devices, model architectures, and example implementations Securing SDN, NFV, cloud, and IoT environments Career preparation and ongoing education for tomorrow's networking careers Key Features: Strong coverage of unifying principles and practical techniques More than a hundred figures that clarify key concepts Web support at williamstallings.com/Network/ QR codes throughout, linking to the website and other resources Keyword/acronym lists, recommended readings, and glossary Margin note definitions of key words throughout the text Electric Drives provides a practical understanding of the subtleties involved in the operation of modern electric drives. The Third Edition of this bestselling textbook has been fully updated and greatly expanded to incorporate the latest technologies used to save energy and increase productivity, stability, and reliability. Every phrase, equation, number, and reference in the text has been revisited, with the necessary changes made throughout. In addition, new references to key research and development activities have been included to accurately reflect the current state of the art. Nearly 120 new pages covering recent advances, such as those made in the sensorless control of A.C. motor drives, have been added; as have two new chapters on

advanced scalar control and multiphase electric machine drives. All solved numerical examples have been retained, and the 10 MATLAB®–Simulink® programs remain online. Thus, Electric Drives, Third Edition offers an up-to-date synthesis of the basic and advanced control of electric drives, with ample material for a two-semester course at the university level. This is an elementary textbook on an advanced topic: broadband telecommunication networks. I must declare at the outset that this book is not primarily intended for an audience of telecommunication specialists who are well versed in the concepts, system architectures, and underlying technologies of high-speed, multi media, bandwidth-on-demand, packet-switching networks, although the technically sophisticated telecommunication practitioner may wish to use it as a reference. Nor is this book intended to be an advanced textbook on the subject of broadband networks. Rather, this book is primarily intended for those eager to learn more about this exciting frontier in the field of telecommunications, an audience that includes systems designers, hardware and software engineers, engineering students, R&D managers, and market planners who seek an understanding of local-, metropolitan-, and wide-area broadband networks for integrating voice, data, image, and video. Its primary audience also includes researchers and engineers from other disciplines or other branches of telecommunications who anticipate a future involvement in, or who would simply like to learn more about, the field of broadband networks, along with scientific researchers and corporate telecommunication and data communication managers whose increasingly sophisticated applications would benefit from (and drive the need for) broadband networks. Advanced topics are certainly not ignored (in fact, a plausible argument could be mounted that all of the material is advanced, given the infancy of the topic).

Meningococcal septicemia and meningitis continue to be important causes of devastating illness, death, and long-term disability in both developed and resource-poor countries of the world. Few diseases have attracted as much public attention, or are as feared by parents and family members, as well as the medical staff who have to care for affected patients. The unexpected and unpredictable occurrence of the disease in previously healthy children and young adults, its rapid progression, and the frequent occurrence of purpura fulminans with the resulting gangrene of limbs and digits and the requirement for mutilating surgery, have all heightened both public and medical interest in the disease. Over the past two decades there has been a rapid increase in knowledge of many aspects of meningococcal disease as a result of intensive efforts by workers in many different fields: clinicians have studied the early presenting features and acute pathophysiology of the disorder; clinical scientists have explored the immunopathological mechanisms responsible for disease and have highlighted the important roles played by the host inflammatory response and pro-inflammatory cytokines in mediating damage to blood vessels and organs; microbiologists have developed new diagnostic methods; public health physicians and epidemiologists have improved surveillance techniques with the help of molecular tools provided by bacterial population biologists; and basic scientists have used the powerful new tools in molecular and cell biology to elucidate virulence mechanisms. This is a one-stop guide for circuit designers and system/device engineers, covering everything from CAD to reliability. The Twenty-First-Century Media Industry: Economic and Managerial Implications in the Age of New Media examines the role that new media technologies are having on the traditional media industry from a media management perspective. Consumer behaviors and consumer expectations are being shaped by new media technologies. They now expect information on-demand and on-the-go as well as at their finger-tips via the Internet. In order to stay relevant, traditional media managers and practitioners are adapting to these consumer demands and expectations by developing new business models and new business philosophies to stay competitive. The contributors to this volume explore the business strategies being implemented by some media industries such as newspapers and the recording industry who are struggling to not only remain competitive and profitable, but also to survive. The Twenty-First-Century Media Industry provides an intriguing examination of how traditional media industries are adapting to new media technologies and evolving in the twenty-first century. For anyone who has grown disenchanted with Microsoft's Internet Explorer web browser, 'Don't Click on the Blue E!' offers help. It gives non-technical users a convenient roadmap for switching to a better web browser -- Firefox. Covering the switch to Firefox, this is a helpful how-to guide. The updated third edition of the classic book that provides an introduction to electric machines and their emerging applications The thoroughly revised and updated third edition of Electromechanical Motion Devices contains an introduction to modern electromechanical devices and offers an understanding of the uses of electric machines in emerging applications such as in hybrid and electric vehicles. The authors—noted experts on the topic—put the focus on modern electric drive applications. The book includes basic theory, illustrative examples, and contains helpful practice problems designed to enhance comprehension. The text offers information on Tesla's rotating magnetic field, which is the foundation of reference frame theory and explores in detail the reference frame theory. The authors also review permanent-magnetic, synchronous, and induction machines. In each chapter, the material is arranged so that if steady-state operation is the main concern, the reference frame derivation can be de-emphasized and focus placed on the steady state equations that are similar in form for all machines. This important new edition:

- Features an expanded section on Power Electronics
- Covers Tesla's rotating magnetic field
- Contains information on the emerging applications of electric machines, and especially, modern electric drive applications
- Includes online animations and a solutions manual for instructors

Written for electrical engineering students and engineers working in the utility or automotive industry, Electromechanical Motion Devices offers an invaluable book for students and professionals interested in modern machine theory and applications. Halbleiter-Leistungsbaulemente sind das Kernstück der Leistungselektronik. Sie bestimmen die Leistungsfähigkeit und machen neuartige und verlustarme Schaltungen erst möglich. In dem Band wird neben den Halbleiter-Leistungsbaulementen selbst auch die Aufbau- und Verbindungstechnik behandelt: von den physikalischen Grundlagen und der Herstellungstechnologie über einzelne Bauelemente bis zu thermomechanischen Problemen, Zerstörungsmechanismen und Störungseffekten. Die 2., überarbeitete Auflage berücksichtigt technische Neuerungen und Entwicklungen. Both deregulation in the electrical supply industry and the creation of new electricity markets present electric utility companies with the challenge of becoming more efficient without compromising quality of service. Providing new solutions for this newly deregulated paradigm, Power Quality: VAR Compensation in Power Systems presents comprehensive coverage of power quality, harmonics, and static var compensators in one single volume. The book explains how to ensure that power quality is not affected by the harmonics generated by power electronic equipment and explains how to reduce labor costs and increase reliability of supply by employing a single pole autoreclosing scheme. It also addresses how to analyze frequency response of current transformers and voltage transformers while measuring harmonics. Based on the authors' extensive experience in the electric supply industry, Power Quality enables engineers to meet the demands of increased loads, strengthen their transmission systems, and ensure reliable electric supply. Urban Water Crisis and Management: Strategies for Sustainable Development, Sixth Edition presents solutions for the current challenges of urban water and management strategies. Through contributed chapters, a framework is laid out for a reduction of the use of groundwater (heavily overused as a solution) and the alternative options for the supply of water to cities, or for urban water. Sections discuss urban water, its problems and management approaches, address the root causes of the water crisis in urban areas, and cover the scientific and technical knowledge necessary to manage water resources. Significant gaps between developed and developing nations in the procedure of water management are also addressed, along with practical information regarding recycling and the reuse of wastewater which is useful as baseline data for the future. Presents the quantitative study of water supply in urban areas, identifies water scarcity in megacities, and provides management approaches for sustainable development Identifies technology and the instruments required for the management and safe supply of water Includes case studies where these technologies have been successfully used Switchmode RF and Microwave Power Amplifiers, Third Edition is an essential reference book on developing RF and microwave switchmode power amplifiers. The book combines theoretical discussions with practical examples, allowing readers to design high-efficiency RF and microwave power amplifiers on different types of bipolar and field-effect transistors, design any type of high-efficiency switchmode power amplifiers operating in Class D or E at lower frequencies and in Class E or F and their subclasses at microwave frequencies with specified output power, also providing techniques on how to design multiband and broadband Doherty amplifiers using different bandwidth extension techniques and implementation technologies. This book provides the necessary information to understand the theory and practical implementation of load-network design techniques based on lumped and transmission-line elements. It brings a unique focus on switchmode RF and microwave power amplifiers that are widely used in cellular/wireless, satellite and radar communication systems which offer major power consumption savings. Provides a complete history of high-efficiency Class E and Class F techniques Presents a new chapter on Class E with shunt capacitance and shunt filter to simplify the design of high-efficiency power amplifier with broader frequency bandwidths Covers different Doherty architectures, including integrated and monolithic implementations, which are and will be, used in modern communication systems to save power consumption and to reduce size and costs Includes extended coverage of multiband and broadband Doherty amplifiers with different frequency ranges and output powers using different bandwidth extension techniques Balances theory with practical implementation, avoiding a cookbook approach and enabling engineers to develop better designs, including hybrid, integrated and monolithic implementations Master CCIE Routing and Switching 4.0 blueprint exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with Exam Preparation Tasks Practice with realistic exam questions on the CD-ROM CCIE Routing and Switching Certification Guide, Fourth Edition, is a best-of-breed Cisco® exam study guide that focuses specifically on the objectives for the CCIE® Routing and Switching written exam. Well-respected networking professionals Wendell Odom, Rus Healy, and Denise Donohue share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. CCIE Routing and Switching Certification Guide, Fourth Edition, presents you with an organized test preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and allow you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks sections help drill you on key concepts you must know thoroughly. The companion CD-ROM contains a powerful testing engine that allows you to focus on individual topic areas or take complete, timed exams. The assessment engine also tracks your performance and provides feedback on a module-by-module basis, presenting question-by-question remediation to the text and laying out a complete study plan for review. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. CCIE Routing and Switching Certification Guide, Fourth Edition, is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit [www.cisco.com/go/authorizedtraining](http://www.cisco.com/go/authorizedtraining). The official study guide helps you master all the topics on the CCIE Routing and Switching written exam, including: Bridging and LAN switching IP addressing, IP services, TCP, UDP, and application protocol details Layer 3 forwarding concepts EIGRP, OSPF, and BGP routing protocols Quality of service Frame Relay MPLS IP multicast IPv6 Router and switch security Troubleshooting Companion CD-ROM The CD-ROM contains 200 practice questions for the exam. This volume is part of the Certification Guide Series from Cisco Press®. Books in this series provide officially developed exam preparation materials that offer assessment, review, and practice to help Cisco Career Certification candidates identify weaknesses, concentrate their study efforts, and enhance their confidence as exam day nears. Category: Cisco Press-Cisco Certification Covers: CCIE Routing and Switching written exam 350-001 v4.0 Phylogenies, or evolutionary trees, are the basic structures necessary to think about and analyze differences between species. Statistical, computational, and algorithmic work in this field has been ongoing for four decades now, and there have been great advances in understanding. Yet no book has summarized this work. Inferring Phylogenies does just that in a single, compact volume. Phylogenies are inferred with various kinds of data. This book concentrates on some of the central ones: discretely coded characters, molecular sequences, gene frequencies, and quantitative traits. Also covered are restriction sites, RAPDs, and microsatellites. This extensively revised edition offers a comprehensive, practical, up-to-date understanding of how to tackle a power amplifier design with confidence and quickly determine the cause of malfunctioning hardware. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Introducing Routing and Switching in the Enterprise, CCNA Discovery Learning Guide is the official supplemental textbook for the Introducing Routing and Switching in the Enterprise course in the Cisco® Networking Academy® CCNA® Discovery curriculum

version 4. The course, the third of four in the new curriculum, familiarizes you with the equipment applications and protocols installed in enterprise networks, with a focus on switched networks, IP Telephony requirements, and security. It also introduces advanced routing protocols such as Enhanced Interior Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF) Protocol. Hands-on exercises include configuration, installation, and troubleshooting. The Learning Guide's features help you focus on important concepts to succeed in this course: Chapter Objectives—Review core concepts by answering the focus questions listed at the beginning of each chapter. Key Terms—Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter. The Glossary defines each key term. Summary of Activities and Labs—Maximize your study time with this complete list of all associated exercises at the end of each chapter. Check Your Understanding—Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer. Challenge Questions and Activities—Apply a deeper understanding of the concepts with these challenging end-of-chapter questions and activities. The answer key explains each answer. Hands-on Labs— Master the practical, hands-on skills of the course by performing all the tasks in the course labs and additional challenge labs included in Part II of the Learning Guide. This book is part of the Cisco Networking Academy Series from Cisco Press®. Books in this series support and complement the Cisco Networking Academy curriculum. A comprehensive text that covers both receiver and transmitter circuits, reflecting the past decade's developments in solid-state technology. Emphasizes design using practical circuit elements, with basic ideas of electrical noise, resonant impedance-matching circuits, and modulation theory thoroughly explained. Contains the latest techniques in radio frequency power amplifier design, accepted state-of-the-art technology based on bipolar junction transistors, VMOS RF power FETs, high-efficiency techniques, envelope elimination and restoration, envelope feedback, and other newly emerging technologies. Requires a knowledge of complex algebra, Fourier series, and Fourier transforms. Also includes numerous worked-out examples that relate the theory to practical circuit applications, and homework problems keyed to corresponding sections of the text. Although multiple sclerosis and other disorders of myelin formation and repair are most commonly associated with adults, they can also occur in infants, children and adolescents. Up to 5 percent of those with MS experience symptoms before the age of 18, and the number of cases diagnosed is rising. There is a lack of awareness about these diseases in childhood, however, even amongst pediatric neurologists and MS specialists. Demyelinating Disorders of the Central Nervous System in Childhood provides comprehensive coverage of these diseases, highlighting throughout the differences between management in childhood and in adults. With sections dedicated to the diagnosis, course, treatment and biology of pediatric MS, detailed chapters on other childhood demyelinating diseases, including acute disseminated encephomyelitis, optic neuritis, acute complete transverse myelitis and neuromyelitis optica, are also provided. Essential reading for pediatric neurologists and MS specialists, this book will also be valuable reading for adult neurologists and pediatricians. At the Network's Edge will help you understand the evolution of the network interface card and obtain a broader view of the server networking subsystem. This book will instill in you a deeper appreciation for the rich and diverse capabilities offered by the data communications protocol stack manifested by the NIC at the edge of the network. You will get an in-depth insight into the components of the host networking ecosystem that includes the operating system networking stack, the PCI Express host interface, and the local area network. "Demystifies object-oriented programming, and lays out how to use it to design truly secure and performant applications." —Charles Soetan, Plum.io Key Features Dozens of techniques for writing object-oriented code that's easy to read, reuse, and maintain Write code that other programmers will instantly understand Design rules for constructing objects, changing and exposing state, and more Examples written in an instantly familiar pseudocode that's easy to apply to Java, Python, C#, and any object-oriented language Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About The Book Well-written object-oriented code is easy to read, modify, and debug. Elevate your coding style by mastering the universal best practices for object design presented in this book. These clearly presented rules, which apply to any OO language, maximize the clarity and durability of your codebase and increase productivity for you and your team. In Object Design Style Guide, veteran developer Matthias Noback lays out design rules for constructing objects, defining methods, and much more. All examples use instantly familiar pseudocode, so you can follow along in the language you prefer. You'll go case by case through important scenarios and challenges for object design and then walk through a simple web application that demonstrates how different types of objects can work together effectively. What You Will Learn Universal design rules for a wide range of objects Best practices for testing objects A catalog of common object types Changing and exposing state Test your object design skills with exercises This Book Is Written For For readers familiar with an object-oriented language and basic application architecture. About the Author Matthias Noback is a professional web developer with nearly two decades of experience. He runs his own web development, training, and consultancy company called "Noback's Office." Table of Contents: 1 | Programming with objects: A primer 2 | Creating services 3 | Creating other objects 4 | Manipulating objects 5 | Using objects 6 | Retrieving information 7 | Performing tasks 8 | Dividing responsibilities 9 | Changing the behavior of services 10 | A field guide to objects 11 | Epilogue This book focuses on the latest approaches and methods in fundamental mathematics and mechanics, and discusses the practical application of abstract mathematical approaches, such as differential geometry, and differential and difference equations in solid mechanics, hydrodynamics, aerodynamics, optimization, decision-making theory and control theory. Featuring selected contributions to the open seminar series of Lomonosov Moscow State University and Igor Sikorsky Kyiv Polytechnic Institute by mathematicians from China, Germany, France, Italy, Spain, Russia, Ukraine and the USA, the book will appeal to mathematicians and engineers working at the interface of these fields

- [Foundations Of Modern Networking](#)
- [Power Quality](#)
- [Switchmode RF And Microwave Power Amplifiers](#)
- [Dont Click On The Blue E](#)
- [Switchmode RF Power Amplifiers](#)
- [Proceedings IEEE International Conference On Computer Design VLSI In Computers](#)
- [Stabilization Of Switched Nonlinear Systems With Unstable Modes](#)
- [An Introduction To Broadband Networks](#)
- [Semiconductor Power Devices](#)
- [Combinatorics Of Spreads And Parallelisms](#)
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- [Fundamentals Of Telecommunications](#)
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- [Choice](#)
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- [Railroad Accounts And Statistics](#)
- [RF Power Amplifiers For Wireless Communications](#)
- [At The Networks Edge](#)
- [Power System Protection And Switchgear](#)
- [Handbook Of RF And Microwave Power Amplifiers](#)
- [PAIS Subject Headings](#)
- [Meningococcal Disease](#)
- [Object Design Style Guide](#)
- [CCIE Routing And Switching Certification Guide](#)
- [Electromechanical Motion Devices](#)

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- [Electric Drives](#)
- [Maintenance Of Radar Microwave Link RML Equipment](#)
- [Designing Logic Systems Using State Machines](#)
- [Inferring Phylogenies](#)
- [High Power Converters And AC Drives](#)
- [The Twenty First Century Media Industry](#)
- [Contemporary Approaches And Methods In Fundamental Mathematics And Mechanics](#)
- [Battery Operated Devices And Systems](#)