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Introduction to Communication Systems-Ferrel G. Stremler 1982 Features Explanations of practical communication systems presented in the context of theory. Over 300 excellent illustrations help students visualize difficult concepts and demonstrate practical applications. Over 120 worked-out examples promote mastery of new concepts, plus over 130 drill problems with answers extend these principles. A wide variety of problems, all new to this edition -- including realistic applications, computer-based problems, and design problems. Coverage of current topics of interest, such as fiber optics, spread spectrum systems and Integrated Digital Services Networks.

Introduction to Communication Systems-Ferrel G. Stremler 1990 This text presents a thorough introduction to communication systems, with an emphasis on engineering aspects of signal waveform design and modulation. Its presentation skillfully connects development of mathematical principles to examples from current operating communication systems. Most importantly, explanations and exercises are carefully motivated with practical applications.

Features Explanations of practical communication systems presented in the context of theory. Over 300 excellent illustrations help students visualize difficult concepts and demonstrate practical applications. Over 120 worked-out examples promote mastery of new concepts, plus over 130 drill problems with answers extend these principles. A wide variety of problems, all new to this edition -- including realistic applications, computer-based problems, and design problems. Coverage of current topics of interest, such as fiber optics, spread spectrum systems and Integrated Digital Services Networks.

Introduction to Communication Systems-Upamanyu Madhow 2014-11-24 An accessible undergraduate textbook introducing key fundamental principles behind modern communication systems, supported by exercises, software problems and lab exercises.

Communication Systems, 3Rd Ed-Simon Haykin 2008-09 The study of communication systems is basic to an undergraduate program in electrical engineering. In this third edition, the author has presented a study of classical communication theory in a logical and interesting manner. The material is illustrated with examples and computer-oriented experiments intended to help the reader develop an intuitive grasp of the theory under discussion.

Introduction · Representation of Signals and Systems · Continuous-Wave Modulation · Random Processes · Noise in CW Modulation Systems · Pulse Modulation · Baseband Pulse Transmission · Digital Passband Transmission · Spread-Spectrum Modulation · Fundamental Limits in Information Theory · Error Control Coding · Advanced Communication Systems

Digital Techniques for Wideband Receivers-James B. Tsui 2004 This book is a current, comprehensive design guide for your digital processing work with today's complex receiver systems. This book brings you up-to-date with the latest information on wideband electronic warfare receivers, the ADC testing procedure, frequency channelization and decoding schemes, and the operation of monobit receivers.

Introduction to PCM Telemetry Systems-Stephen Horan 2018-10-03 Telemetry systems and applications have moved far beyond the space flight telemetry most people have heard of to cutting-edge uses across a broad range of disciplines, including industry, medicine, and meteorology. To fully understand and participate in the acquisition of data this technology makes possible, scientists in these fields along with engineers new to telemetry require some background in the concepts, hardware, and software that makes the technology so valuable. Introduction to PCM Telemetry Systems, Second Edition summarizes the techniques and terminology used in sending data and control information between users and the instruments that collect and process the data. It gives an overall systems introduction to the relevant topics in three primary areas: system interfaces; data transport, timing, and synchronization; and data transmission techniques. The topics addressed include sensor characteristics, user interface design, data filtering, data framing, statistical analysis, telemetry standards, time code standards, modulation techniques, and radio propagation. To reinforce understanding, each chapter includes exercises. Rather than focusing on design specifics, which can change so rapidly with evolving technologies, the author centers his discussions on concepts and standards. This edition incorporates the latest standards, LabVIEW-based examples of telemetry and command processing, and simulations using multiSim and Commsim.

Contemporary Communication Systems Using MATLAB-John G. Proakis 2012-07-19 Featuring a variety of applications that motivate students, this book serves as a companion or supplement to any of the comprehensive textbooks in communication systems. The book provides a variety of exercises that may be solved on the computer using MATLAB. By design, the treatment of the various topics is brief. The authors provide the motivation and a short introduction to each topic, establish the necessary notation, and then illustrate the basic concepts by means of an example. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Introduction to Digital Communications-Ali Grami 2015-02-25 Introduction to Digital Communications explores the basic principles in the analysis and design of digital communication systems, including design objectives, constraints and trade-offs. After portraying the big picture and laying the background material, this book lucidly progresses to a comprehensive and detailed discussion of all critical elements and key functions in digital communications. The first undergraduate-level textbook exclusively on digital communications, with a complete coverage of source and channel coding, modulation, and synchronization. Discusses major aspects of communication networks and multiuser communications Provides insightful descriptions and intuitive explanations of all complex concepts Focuses on practical applications and illustrative examples. A companion Web site includes solutions to end-of-chapter problems and computer exercises, lecture slides, and figures and tables from the text

Communication Technology Update and Fundamentals-August E. Grant 2018-06-13 For three decades, Communication Technology Update and Fundamentals has set the standard as the single best resource for students and professionals looking to brush up on how communication technologies have developed, grown, and converged, as well as what's in store for the future. The secret to the longevity is simple—every two years, the book is completely rewritten to ensure that it contains the latest developments in mass media, computers, consumer electronics, networking, and telephony. Plus, the book includes the Fundamentals: the first five chapters explain the communication technology ecosystem, the history, structure, and regulations. The chapters are written by experts who provide snapshots of the state of each individual field. Together, these updates provide a broad overview of these industries, as well as the role communication technologies play in our everyday lives. In addition to substantial updates to each chapter, the 16th edition includes: First-ever chapters on Virtual/Augmented Reality and eSports. Updated user data in every chapter. Overview of industry structure, including recent and proposed mergers and acquisitions Suggestions on how to get a job working with the technologies discussed. The companion website, www.tfi.com/ctu, offers updated information on the technologies covered in this text, as well as links to other resources.

Communication Systems for Electrical Engineers-Mohammad A. Matin 2017-12-28 This book is written as a very concise introduction for students taking a first course in communication systems. It provides the reader with fundamentals of digital communication systems and disseminates the essentials needed for the understanding of wire and wireless communication systems for Electrical Engineers. It covers important topics right from the beginning of the subject which communication engineers must understand. Example problems in each chapter will help them in understanding the materials well. The study of data networking will include multiple access, reliable packet transmission, routing and protocols of the internet. The concepts taught in class will be discussed in the context of aerospace communication systems: aircraft communications, satellite communications. The book includes example problems in each chapter to help the reader in understanding the materials well.

Communications Systems and Networks-Ray Horak 1999-11-30 Packed with diagrams and illustrations, Communications & Systems delivers plain-English explanations of all the technical fundamentals -- and puts everything in context by addressing standards, regulations, and the real-world outlook for legacy, contemporary, and emerging technologies. In this unique overview, Ray Horak lucidly describes today's communications systems and networks -- voice, data, video, and multimedia -- and explains how they are likely to evolve and converge as we move further toward an information-based economy. Whether you're a communications pro who wants to gain some perspective or you just want to understand our increasingly wired and wireless world, this is the one book you need to see the big picture, with just the right amount of detail.

Communication Technology Update and Fundamentals-August E. Grant 2016-11-03 Communication Technology Update and Fundamentals has set the standard as the single best resource for students and professionals looking to brush up on how communication technologies have developed, grown, and converged, as well as what's in store for the future. The 15th edition is completely updated, reflecting the changes that have swept the communication industries. The first five chapters offer the communication technology fundamentals, including the ecosystem, the history, and structure—then delves into each of about two dozen technologies, including mass media, computers, consumer electronics, and networking technologies. Each chapter is written by experts who provide snapshots of the state of each individual field. Together, these updates provide a broad overview of these industries, as well as the role communication technologies play in our everyday lives. In addition to substantial updates to each chapter, the 15th edition includes: First-ever chapters on Big Data and the Internet of Things Updated user data in every chapter Projections of what each technology will become by 2031 Suggestions on how to get a job working with the technologies discussed The companion website, www.tfi.com/ctu, offers updated information on the technologies covered in this text, as well as links to other resources

Short-range Wireless Communication-Alan Bensky 2004-03-05 The Complete "Tool Kit for the Hottest Area in RF/Wireless Design! Short-range wireless—communications over distances of less than 100 meters—is the most rapidly growing segment of RF/wireless engineering. Alan Bensky is an internationally recognized expert in short-range wireless, and this new edition of his bestselling book is completely revised to cover the latest developments in this fast moving field. You'll find coverage of such cutting-edge topics as: • architectural trends in RF/wireless integrated circuits • compatibility and conflict issues between different short-range wireless systems • "Zigbee and related new IEEE standards for short-range communications • latest U.S. and international regulatory standards for spread spectrum, ultra wideband, and other advanced communications techniques Alan Bensky also thoroughly discusses the fundamentals of radio signal propagation, communications protocols and modulation methods, information theory, antennas and transmission lines, receivers, transmitters, radio system design, and how to successfully implement a short-range wireless system. All material has been carefully updated and revised to make it as technically up-to-the-minute as possible. You'll also find coverage of Bluetooth, "Wi-Fi and related 802.11 variants, digital modulation methods, and other essential information for planning and designing short-range wireless hardware and networks. This new edition will, like the first edition, be an invaluable reference for engineers and technical professionals who design, support, market, and maintain short-range wireless communications systems. No other book contains EVERYTHING pertaining to short-range wireless design. Covers all the hot topics like 802.11, Zigbee, Wi-Fi and Bluetooth.

Introduction to Communications Technologies-Stephan Jones 2015-07-28 Thanks to the advancement of faster processors within communication devices, there has been a rapid change in how information is modulated, multiplexed, managed, and moved. While formulas and functions are critical in creating the granular components and operations of individual technologies, understanding the applications and their purposes in the

The Electronics Handbook-Jerry C. Whitaker 1996-12-23 The superb organization of The Electronics Handbook means that it is not only a comprehensive and fascinating reference, but also a pleasure to use. Some of these organizational features include:

Introduction to Communication Studies-John Fiske 2010-10-18 This revised edition of a now classic text includes a new introduction by Henry Jenkins, explaining 'Why Fiske Still Matters' for today's students, followed by a discussion between former Fiske students Ron Becker, Elana Levine, Darrell Newton and Pamela Wilson on the theme of 'Structuralism and Semiotics, Fiske-Style'. Both underline the continuing relevance of this foundational text in communication studies. How can we study communication? What are the main theories and methods of approach? This classic text provides a lucid, accessible introduction to the main authorities in the field of communication studies, aimed at students coming to the subject for the first time. It outlines a range of methods of analysing examples of communication, and describes the theories underpinning them. Thus armed, the reader will be able to tease out the latent cultural meanings in such apparently simple communications as news photos or popular TV programmes, and to see them with new eyes.

Introduction to Information SystemsPeople, Technology and Processes-Patricia Wallace 2014-01-27 A fresh, contemporary, active introduction to information systems ¿ Introduction to Information Systems provides invaluable help for learning the knowledge and skills related to information systems. In it, students see clearly what information systems are all about and why they are so fundamental to business and society. ¿ MyMISLab for Introduction to Information Systems creates learning experiences that are truly personalized and continuously adaptive. MyMISLab reacts to how students are actually performing, offering data-driven guidance that helps them better absorb course material and understand difficult concepts—resulting in better performance in the course ¿ Packed with revelations about business strategies, technology trends and innovations-plus tips to help students work smarter, and more efficiently—

Introduction to Information Systems provides a better teaching and learning experience—for you and your students. Here's how: Personalize learning through the interactive, online role-playing simulations in MyMISLabTM: Students get opportunities to apply their knowledge and actually experience what each chapter is about, rather than simply memorizing key terms and concepts. A focus on reaching all students, recognizing changing student roles, and showing clearly where the knowledge of information systems skills can take them. Helping students see beyond today's classrooms and into today's varied world. End-of-book comprehensive case studies show students the concepts in action.

Note: You are purchasing a standalone product; MyMISLab does not come packaged with this content. If you would like to purchase both the physical text and MyMISLAB search for ISBN-10: 0133807487 /ISBN-13: 9780133807486.

That package includes ISBN-10: 0133571750/ISBN-13: 9780133571752 and ISBN-10: 0133753506/ISBN-13: 9780133753509. MyMISLab is not a self-paced technology and should only be purchased when required by an instructor.

Principles Of Communication-Dr.J.S.Chitode 2009

The Mobile Communications Handbook-Jerry D. Gibson 1999-02-23 In a single volume, The Mobile Communications Handbook 2nd. Edition covers the entire field - from principles of analog and digital communications to cordless telephones, wireless local area networks (LANs), and international technology standards. The amazing scope of the handbook ensures that it will be the primary reference for every aspect of mobile communications.

Principles of Electronic Communication Systems-Louis E. Frenzel 2003 "Principles of Electronic Communication Systems" is an introductory course in communication electronics for students with a background in basic electronics. The program provides students with the current, state-of-the-art electronics techniques used in all modern forms of electronic communications, including radio, television, telephones, facsimiles, cell phones, satellites, LAN systems, digital transmission, and microwave communications. The text is readable with easy-to-understand line drawings and color photographs. The up-to-date content includes a new chapter on wireless communications systems. Various aspects of troubleshooting are discussed throughout..

Choices & Connections-Steven McCornack 2019-09-05 Choices & Connections shows students that communication is an opportunity to connect their words and actions to their choice of who they want to be and what kind of community they want to live in. Every element in the text is designed to engage students in the study of communication and help them become resilient, confident, and culturally conscious communicators. Choices & Connections helps students integrate and apply the most current scholarly research through scenario activities, real-life situations, and pop-culture examples designed to recursively develop communication skills best learned through practice, in context. The third edition has been extensively revised to ensure that all students' perspectives are represented. The coverage of gender communication has been overhauled, with a reimagined Chapter 3 on "Understanding Gender and Culture." The mediated communication chapter has also been heavily revised with the latest research.

Introduction to Wireless and Mobile Systems-Dharma P. Agrawal 2015-01-01 Focusing on qualitative descriptions and realistic explanations of relationships between wireless systems and performance parameters, INTRODUCTION TO WIRELESS AND MOBILE SYSTEMS, 4e explains the general principles of how wireless systems work, how mobility is supported, what the underlying infrastructure is and what interactions are needed among different functional components. Rather than offering a thorough history of the development of wireless technologies or an exhaustive list of work being carried out, the authors help computer science, computer engineering, and electrical engineering students learn this exciting technology through relevant examples, such as understanding how a cell phone starts working as soon as they get out of an airplane. This edition offers the most extensive coverage of Ad Hoc and Sensor Networks available for the course and includes up-to-date coverage of the latest wireless technologies. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Communication systems-Athol Bruce Carlson 1981

Principles of Spread-Spectrum Communication Systems-Don Torrieri 2006-01-16 Originally adopted in military networks as a means of ensuring secure communication when confronted with the threats of jamming and interception, spread-spectrum systems are now the core of commercial applications such as mobile cellular and satellite communication. This book provides a concise but lucid explanation and derivation of the fundamentals of spread-spectrum communication systems. The level of presentation is suitable for graduate students with a prior graduate-level course in digital communication and for practicing engineers with a solid background in the theory of digital communication.

As the title indicates, the author focuses on principles rather than specific current or planned systems. Although the exposition emphasizes theoretical principles, the choice of specific topics is tempered by their practical significance and interest to both researchers and system designers. Throughout the book, learning is facilitated by many new or streamlined derivations of the classical theory. Problems at the end of each chapter are intended to assist readers in consolidating their knowledge and to provide practice in analytical techniques. Principles of Spread-Spectrum Communication Systems is largely self-contained mathematically because of the four appendices, which give detailed

derivations of mathematical results used in the main text.

Introduction to Fiber Optics-John Crisp 2005-10-20 Introduction to Fiber Optics is well established as an introductory text for engineers, managers and students. It meets the needs of systems designers, installation engineers, electronic engineers and anyone else looking to gain a working knowledge of fiber optics with a minimum of maths. Review questions are included in the text to enable the reader to check their understanding as they work through the book. The new edition of this successful book is now fully up to date with the new standards, latest technological developments and includes a new chapter on specifying optical components. Whether you are looking for a complete self-study course in fiber optics, a concise reference text to dip into, or a readable introduction to this fast moving technology, this book has the solution. * A practical, no-nonsense guide to fiber optics * Up-to-date coverage that minimises mathematics * New material on specifying optical components

Distributed Systems-Andrew S. Tanenbaum 2016-02-26 This second edition of Distributed Systems, Principles & Paradigms, covers the principles, advanced concepts, and technologies of distributed systems in detail, including: communication, replication, fault tolerance, and security. Intended for use in a senior/graduate level distributed systems course or by professionals, this text systematically shows how distributed systems are designed and implemented in real systems.

Hodson and Geddes' Cystic Fibrosis, Fourth Edition-Andrew Bush 2015-07-02 Hodson and Geddes' Cystic Fibrosis provides everything the respiratory clinician, pulmonologist or health professional treating patients needs in a single manageable volume. This international and authoritative work brings together current knowledge and has become established in previous editions as a leading reference in the field. This fourth edition includes a wealth of new information, figures, useful videos, and a companion eBook. The basic science that underlies the disease and its progression is outlined in detail and put into a clinical context. Diagnostic and clinical aspects are covered in depth, as well as promising advances such as gene therapies and other novel molecular based treatments. Patient monitoring and the importance of multidisciplinary care are also emphasized. This edition: Features accessible sections reflecting the multidisciplinary nature of the cystic fibrosis care team Contains a chapter written by patients and families about their experiences with the disease Includes expanded coverage of clinical areas, including chapters covering sleep, lung mechanics and the work of breathing, upper airway disease, insulin deficiency and diabetes, bone disease, and sexual and reproductive issues Discusses management both in the hospital and at home Includes a new section on monitoring and discusses the use of databases to improve patient care Covers monitoring in different age groups, exercise testing and the outcomes of clinical trials in these areas Includes chapters devoted to nursing, physiotherapy, psychology, and palliative and spiritual care Throughout, the emphasis is on providing an up-to-date and balanced review of both the clinical and basic science aspects of the subject and reflecting the multidisciplinary nature of the cystic fibrosis care team.

Introduction to Communications Engineering-Robert M. Gagliardi 1988-09-13 Presents thorough coverage of the engineering aspects of modern communication systems, paying particular attention to the practical system considerations in the end-to-end construction of a typical communication link. The text is designed to provide readers with a solid background in current terminology, methodology, and procedures. This updated edition places greater emphasis on modern technology and hardware considerations, with integrated treatment of analog and digital systems. Includes new new material on oscillators, frequency generators, mixers, amplifiers, and digital and switching circuitry. Contains new examples and problems.

Fundamentals of Telecommunications and Networking for It-Riki Morikawa 2019-01-22

Target Acquisition in Communication Electronic Warfare Systems-Richard Poisel 2003-12-01 Radio communications plays an increasingly critical and growing role in today's electronic battlefield. Because more and more radio signals are deployed in electronic warfare (EW) situations, determining which ones are friendly and which are enemy has become more difficult and crucial. This book arms defense systems designers and operators with the full array of traditional search mechanisms and advanced high-resolution techniques for targeting radio signals deployed in electronic warfare. An invaluable technical reference, the book helps professionals fully understand the tradeoffs involved in designing EW target acquisition systems with less time and effort. Moreover, practitioners learn how to establish optimum methods for acquiring communication targets for exploitation or countermeasures. The book also serves as an excellent text for graduate courses in electronic warfare.

Smart Grids and Their Communication Systems-Ersan Kabalcı 2018-09-01 The book presents a broad overview of emerging smart grid technologies and communication systems, offering a helpful guide for future research in the field of electrical engineering and communication engineering. It explores recent advances in several computing technologies and their performance evaluation, and addresses a wide range of topics, such as the essentials of smart grids for fifth generation (5G) communication systems. It also elaborates the role of emerging communication systems such as 5G, internet of things (IoT), IEEE 802.15.4 and cognitive radio networks in smart grids. The book includes detailed surveys and case studies on current trends in smart grid systems and communications for smart metering and monitoring, smart grid energy storage systems, modulations and waveforms for 5G networks. As such, it will be of interest to practitioners and researchers in the field of smart grid and communication infrastructures alike.

Applying Communication Theory for Professional Life-Marianne Dainton 2017-12-22 Updated Edition of Bestseller! Applying Communication Theory for Professional Life, by Marianne Dainton and Elaine D. Zelley is the first communication theory textbook to provide practical material for career-oriented readers. Featuring new case studies, updated examples, and the latest research, the Fourth Edition of this bestseller introduces communication theory in a way that helps you understand its importance to careers in communication and business. Real-world case studies within each chapter are designed to illustrate the application of theory in a variety of professional settings. New to the Fourth Edition All case studies now include specific questions about ethical issues associated with the narrative of the case and how knowledge of theory can help you negotiate these ethical dilemmas. The simulated "Education as Entertainment Theory" includes apps and other new media forms of educational content, keeping you up-to-date with the latest technology. Four new case studies have been added to show you how the theories are tied to recent events. The cases are titled: 1. "You're Fired" 2. "Bad Move" 3. "Million Dollar Manipulation" 4. "The (New) Media Culture Wars" New research and scholarship for all theories can be found in the "Chapter Summaries" and "Research Applications" of each chapter. Numerous political examples have been added to reflect the increasingly divergent political rhetoric in the United States.

Electronic Communication Systems-George Kennedy 1984

Circuits, Signals and Systems for Bioengineers-John Semmlow 2017-12-07 Circuits, Signals and Systems for Bioengineers: A MATLAB-Based Introduction, Third Edition, guides the reader through the electrical engineering principles that can be applied to biological systems. It details the basic engineering concepts that underlie biomedical systems, medical devices, biocontrol and biomedical signal analysis, providing a solid foundation for students in important bioengineering concepts. Fully revised and updated to better meet the needs of instructors and students, the third edition introduces and develops concepts through computational methods that allow students to explore operations, such as correlations, convolution, the Fourier transform and the transfer function. New chapters have been added on image analysis, noise, stochastic processes and ergodicity, and new medical examples and applications are included throughout the text. Covers current applications in biocontrol, with examples from physiological systems modeling, such as the respiratory system Includes revised material throughout, with improved clarity of presentation and more biological, physiological and medical examples and applications Includes a new chapter on noise, stochastic processes, non-stationary and ergodicity Includes a separate new chapter featuring expanded coverage of image analysis Includes support materials, such as solutions, lecture slides, MATLAB data and functions needed to solve the problems

Communication Systems Engineering-John G. Proakis 2002 Thorough coverage of basic digital communication system principles ensures that readers are exposed to all basic relevant topics in digital communication system design. The use of CD player and JPEG image coding standard as examples of systems that employ modern communication principles allows readers to relate the theory to practical systems. Over 180 worked-out examples throughout the book aids readers in understanding basic concepts. Over 480 problems involving applications to practical systems such as satellite communications systems, ionospheric channels, and mobile radio channels gives readers ample opportunity to practice the concepts they have just learned. With an emphasis on digital communications, Communication Systems Engineering, Second Edition introduces the basic principles underlying the analysis and design of communication systems. In addition, this book gives a solid introduction to analog communications and a review of important mathematical foundation topics. New material has been added on wireless communication systems—GSM and CDMA/IS-94; turbo codes and iterative decoding; multicarrier (OFDM) systems; multiple antenna systems. Includes thorough coverage of basic digital communication system principles—including source coding, channel coding, baseband and carrier modulation, channel distortion, channel equalization, synchronization, and wireless communications. Includes basic coverage of analog modulation such as amplitude modulation, phase modulation, and frequency modulation as well as demodulation methods. For use as a reference for electrical engineers for all basic relevant topics in digital communication system design.

Satellite Communication Systems-B.G. Evans 1999 A thoroughly up-to-date revision of this successful book this text aims to give the professional engineer or graduate student a fully comprehensive yet practical understanding of the principles and technological issues of this major subject. The book contains a strong tutorial element and real-world orientation.

Introduction to Satellite Communication-Bruce R. Elbert 2008 The book covers all the fundamentals of satellites, ground control systems, and earth stations, considering the design and operation of each major segment. You gain a practical understanding of the basic construction and usage of commercial satellite networks. How parts of a satellite system function, how various components interact, which role each component plays, and which factors are the most critical to success."

Introduction to Modern Power Electronics-Andrzej M. Trzynadlowski 2015-11-16 Provides comprehensive coverage of the basic principles and methods of electric power conversion and the latest developments in the field This book constitutes a comprehensive overview of the modern power electronics. Various semiconductor power switches are described, complementary components and systems are presented, and power electronic converters that process power for a variety of applications are explained in detail. This third edition updates all chapters, including new concepts in modern power electronics. New to this edition is extended coverage of matrix converters, multilevel inverters, and applications of the Z-source in cascaded power converters. The book is accompanied by a website hosting an instructor's manual, a PowerPoint presentation, and a set of PSpice files for simulation of a variety of power electronic converters. Introduction to Modern Power Electronics, Third Edition: Discusses power conversion types: ac-to-dc, ac-to-ac, dc-to-dc, and dc-to-ac Reviews advanced control methods used in today's power electronic converters Includes an extensive body of examples, exercises, computer assignments, and simulations Introduction to Modern Power Electronics, Third Edition is written for undergraduate and graduate engineering students interested in modern power electronics and renewable energy systems. The book can also serve as a reference tool for practicing electrical and industrial engineers.

Optical Communications-M.J.N. Sibley 1990-05-25 Optical links are now to be found in short-haul industrial routes, as well as in long-haul telecommunications routes. In order to design and maintain these links, it is important to understand the operation of the individual system components, and this book provides the relevant information.

Gender in Communication-Catherine Helen Palczewski 2017-11-28 Gender in Communication: A Critical Introduction embraces the full range of diverse gender identities and expressions to explore how gender influences communication, as well as how communication shapes our concepts of gender for the individual and for society. This comprehensive gender communication book is the first to extensively address the roles of religion, the gendered body, single-sex education, an institutional analysis of gender construction, social construction theory, and more. Throughout the book, you are equipped with critical analysis tools you can use to form your own conclusions about the ever-changing processes of gender in communication. New to the Third Edition: Current examples in the chapter openers illustrate how a critical gendered lens is necessary and useful by discussing recent events, such as Jon Stewart's critique of the outcry over a J. Crew ad, reactions to Serena Williams's body, photos of a young boy who likes to wear dresses, and the use of Photoshop to create thigh gaps. Updated chapters on voices, work, education, and family reflect major shifts in the state of knowledge. Expanded sections on trans and gender non-conforming identities reflect changes in language. All other chapters have been updated with new examples, new concepts, and new research. More than 500 new sources have been integrated throughout, and new sections on debates over bathroom bills, intensive mothering, humor, swearing, and Title IX have been added. "His" and "her" pronouns have been replaced with "they" in most cases, even if the reference is singular, in an effort to be more inclusive.

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