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Communication Systems Principles Using MATLAB-John W. Leis 2018-10-16 Discover the basic telecommunications systems principles in an accessible learn-by-doing format Communication Systems Principles Using MATLAB covers a variety of systems principles in telecommunications in an accessible format without the need to master a large body of theory. The text puts the focus on topics such as radio and wireless modulation, reception and transmission, wired networks and fiber optic communications. The book also explores packet networks and TCP/IP as well as digital source and channel coding, and the fundamentals of data encryption. Since MATLAB® is widely used by telecommunications engineers, it was chosen as the vehicle to demonstrate many of the basic ideas, with code examples presented in every chapter. The text addresses digital communications with coverage of packet-switched networks. Many fundamental concepts such as routing via shortest-path are introduced with simple and concrete examples. The treatment of advanced telecommunications topics extends to OFDM for wireless modulation, and public-key exchange algorithms for data encryption. Throughout the book, the author puts the emphasis on understanding rather than memorization. The text also: Includes many useful take-home skills that can be honed while studying each aspect of telecommunications Offers a coding and experimentation approach with many real-world examples provided Gives information on the underlying theory in order to better understand conceptual developments Suggests a valuable learn-by-doing approach to the topic Written for students of telecommunications engineering, Communication Systems Principles Using MATLAB® is the hands-on resource for mastering the basic concepts of telecommunications in a learn-by-doing format.

Distributed Feedback Semiconductor Lasers-John E. Carroll 1998 The need for greater bandwidth has driven laser manufacturers towards the use of distributed feedback semiconductor (DFB) lasers with a well-defined single mode. These semiconductor diode-based devices are now essential components in a broad range of advanced optical systems. This text covers the materials, operation and design strategies of DFB lasers. It provides detailed accounts of large-signal time-domain numerical modelling techniques, which can be extended to optical systems and components other than DFB lasers. Numerical MATLAB programs are outlined in the text.

Contemporary Optical Image Processing with MATLAB-T. C. Poon 2001-04-18 This book serves two purposes: first to introduce readers to the concepts of geometrical optics, physical optics and techniques of optical imaging and image processing, and secondly to provide them with experience in modeling the theory and applications using the commonly used software tool MATLAB®. A comprehensively revised version of the authors' earlier book Principles of Applied Optics, Contemporary Optical Image Processing with MATLAB brings out the systems aspect of optics. This includes ray optics, Fourier Optics, Gaussian beam propagation, the split-step beam propagation method, holography and complex spatial filtering, ray theory of holograms, optical scanning holography, acousto-optic image processing, edge enhancement and correlation using photorefractive materials, holographic phase distortion correction, to name a few. MATLAB examples are given throughout the text. MATLAB is emphasized since it is now a widely accepted software tool very routinely used in signal processing. A sizeable portion of this book is based on the authors' own in-class presentations, as well as research in the area. Instructive problems and MATLAB assignments are included at the end of each Chapter to enhance even further the value of this book to its readers.

MATLAB is a registered trademark of The MathWorks, Inc.

A Matlab Simulation to Aid External-cavity Laser Design-Haosong Fu 1998 Presents a set of MATLAB simulation programs for modeling the external cavity of external cavity semiconductor lasers. "Our goal is to design a compound cavity laser that uses an off-the shelf laser diode and a single mode fiber with grating to produce a laser beam of narrow spectral width, the desired spectral width is on the order of picometers ..."--Page 1.

Full Matlab Code for Synthesis and Optimization of Bragg Gratings-Fethallah Karim 2018-11-07 This book presents a theoretical description of fiber Bragg gratings, focusing on channels' densification and the tunability of Bragg filters. It also includes a full Matlab code for the synthesis and optimization of several kinds of fiber Bragg gratings by using the directed tabu search, the simulated annealing method and the genetic algorithm. Physical and optical parameters of uniform, chirped and sampled fiber Bragg gratings are then reconstructed with these algorithms.

The Physics of Semiconductor Devices-R. K. Sharma 2019-01-31 This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community. It is based on a biennial workshop that provides the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community. The book discusses the latest developments in the field of III-nitrides; materials & devices, compound semiconductors, VLSI technology, optoelectronics, sensors, photovoltaics, crystal growth, epitaxy and characterization, graphene and other 2D materials and organic semiconductors. Photonics Modelling and Design-Slawomir Sujcki 2014-12-03 Photonics Modeling and Design delivers a concise introduction to the modeling and design of photonic devices. Assuming a general knowledge of photonics and the operating principles of fibre and semiconductor lasers, this book: Describes the analysis of the light propagation in dielectric media Discusses heat diffusion and carrier transport Applies the presented theory to develop fibre and semiconductor laser models Addresses the propagation of short optical pulses in optical fibres Puts all modeling into practical context with examples of devices currently in development or on the market Providing hands-on guidance in the form of MATLAB® scripts, tips, and other downloadable content, Photonics Modeling and Design is written for students and professionals interested in modeling photonic devices either for gaining a deeper understanding of the operation or to optimize the design.

Computational Photonics-Marek S. Wartak 2013-01-10 A comprehensive manual on the efficient modeling and analysis of photonic devices through building numerical codes, this book provides graduate students and researchers with the theoretical background and MATLAB programs necessary for them to start their own numerical experiments. Beginning by summarizing topics in optics and electromagnetism, the book discusses optical planar waveguides, linear optical fiber, the propagation of linear pulses, laser diodes, optical amplifiers, optical receivers, finite-difference time-domain method, beam propagation method and some wavelength division devices, solitons, solar cells and metamaterials. Assuming only a basic knowledge of physics and numerical methods, the book is ideal for engineers, physicists and practising scientists. It concentrates on the operating principles of optical devices, as well as the models and numerical methods used to describe them.

Optical Wireless Communications-Z. Ghassemloo 2012-08-08 Detailing a systems approach, Optical Wireless Communications: System and Channel Modelling with MATLAB®, is a self-contained volume that concisely and comprehensively covers the theory and technology of optical wireless communications systems (OWC) in a way that is suitable for undergraduate and graduate-level students, as well as researchers and professional engineers. Incorporating MATLAB® throughout, the authors highlight past and current research activities to illustrate optical sources, transmitters, detectors, receivers, and other devices used in optical wireless communications. They also discuss both indoor and outdoor environments, discussing how different factors—including various channel models—affect system performance and mitigation techniques. In addition, this book broadly covers crucial aspects of OWC systems: Fundamental principles of OWC Devices and systems Modulation techniques and schemes (including polarization shift keying) Channel models and system performance analysis Emerging visible light communications Terrestrial free space optics communication Use of infrared in indoor OWC One entire chapter explores the emerging field of visible light communications, and others describe techniques for using theoretical analysis and simulation to mitigate channel impact on system performance. Additional topics include wavelet denoising, artificial neural networks, and spatial diversity. Content also covers different challenges encountered in OWC, as well as outlining possible solutions and current research trends. A major attraction of the book is the presentation of MATLAB simulations and codes, which enable readers to execute extensive simulations and better understand OWC in general.

International Conference on Applied Optical Metrology-Pranom K. Rastogi 1998 This text brings together 77 papers from the 1998 International Conference on Applied Optical Metrology. They examine topics such as the state of the art in optical metrology, optical methods for the testing of microsystem elements, and fibre optic sensors and their applications.

Novel Applications of Lasers and Pulsed Power-Randy D. Curry 1995

Optical Engineering- 2005 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science, engineering, and technology.

Radio over Fiber for Wireless Communications-Xavier N. Fernando 2014-06-16 A comprehensive evaluation of Fi-Wi, enabling readers to design links using channel estimation and equalizationalgorithms This book provides a detailed study of radio over fiber (ROF)based wireless communication systems, otherwise called fiberwireless (Fi-Wi) systems. This is an emerging hot topic where the abundant bandwidth of optical fiber is directly combined with the flexibility and mobility of wireless networks to provide broadbandconnectivity. Its application is increasing because of thegrowing demand for broadband wireless services. In such a systemthe transmission of the radio signals over a fiber is an importanttask. This book provides substantial material on the radio overfiber part of the complete fiber-wireless system, including newresearch results on the compensation methods. The early chapters provide fundamental knowledge required for anon-expert engineering professional as well as senior/graduatelevel students to learn this topic from scratch. The latter part ofthe book covers advanced topics useful for researchers and seniorstudents. Therefore, this book provides a comprehensiveunderstanding of the system for readers who will gain enoughknowledge to design Fi-Wi links of their own by learning how todevelop Fi-Wi channel estimation and equalization algorithms. Thisconcept is completely novel in current literature and has beenpatented by the author. Readers are expected to have a basic understanding of fiberoptics and wireless communications to easily follow the book and toappreciate the concepts. Basics of the Fi-Wi system and signalprocessing approaches are clearly explained. It covers multidisciplinary topic and acts as a bridge between optical andwireless communication domains. In the increasingly demandingtelecommunications profession, engineers are expected to haveknowledge in both optical and wireless communications and expecteddesign combined/hybrid systems. Hence, the book is written in such a way that both optical and wireless professionals will be able toeasily understand and perceive the concepts. follows a logical process from basic principles through toadvanced topics, providing a wide range of interest forresearchers, practicing engineers, students, and those required tobuild such networks explains detailed system design concepts and the limitationsand advantages in each configuration, appealing to designengineers, and largely avoiding system specifics demonstrates the author's exclusive patent, showing howto develop baseband signal processing algorithms for Fi-Wi systems,which is a key requirement for the successful deployment of Fi-Wisystems contains tables, numerical examples and case studies,facilitating a good quantitative understanding of the topic

Diode Lasers and Photonic Integrated Circuits-Larry A. Coldren 2012-03-02 Diode Lasers and Photonic Integrated Circuits, Second Edition provides a comprehensive treatment of optical communication technology, its principles and theory, treating students as well as experienced engineers to an in-depth exploration of this field. Diode lasers are still of significant importance in the areas of optical communication, storage, and sensing. Using the same well received theoretical foundations of the first edition, the Second Edition now introduces timely updates in the technology and in focus of the book. After 15 years of development in the field, this book will offer brand new and updated material on GaN-based and quantum-dot lasers, photonic IC technology, detectors, modulators and SOAs, DVDs and storage, eye diagrams and BER concepts, and DFB lasers. Appendices will also be expanded to include quantum-dot issues and more on the relation between spontaneous emission and gain.

Applied Quantum Mechanics-A. F. J. Levi 2006-06-01 Electrical and mechanical engineers, materials scientists and applied physicists will find Levi's uniquely practical 2006 explanation of quantum mechanics invaluable. This updated and expanded edition of the bestselling original text covers quantization of angular momentum and quantum communication, and problems and additional references are included. Using real-world engineering examples to engage the reader, the author makes quantum mechanics accessible and relevant to the engineering student. Numerous illustrations, exercises, worked examples and problems are included; Matlab source codes to support the text are available from www.cambridge.org/9780521183994

Contemporary Issues in Wireless Communications-Mutamed Khatib 2014-11-26 Wireless communications have a strong impact on improving the quality of life in this century. Smart phones industry is now considered one of the most attractive fields, so advanced research is conducted in order to improve the quality of service in wireless communication environments. Many design challenges such as power consumption, quality of service, low cost, high data rate and small size are being treated every day. This book aims to provide highlights of the current research in the field of wireless communications. The subjects discussed are very valuable to communication researchers as well as researchers in the wireless related areas. The book chapters cover a wide range of wireless communication topics that are considered key technologies for future applications.

High-Power Diode Lasers-Roland Diehl 2003-07-01 Starting from the basics of semiconductor lasers with emphasis on the generation of high optical output power the reader is introduced in a tutorial way to all key technologies required to fabricate high-power diode-laser sources. Various applications are exemplified.

Engineering Optics with MATLAB-Ting-Chung Poon 2017-10-10 This invaluable second edition provides more in-depth discussions and examples in various chapters. Based largely on the authors' own in-class lectures as well as research in the area, the comprehensive textbook serves two purposes. The first introduces some traditional topics such as matrix formalism of geometrical optics, wave propagation and diffraction, and some fundamental background on Fourier optics. The second presents the essentials of acousto-optics and electro-optics, and provides the students with experience in modeling the theory and applications using a commonly used software tool MATLAB®.

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Laser Weapons Technology- 2000

Laser Dynamics-Thomas Erneux 2010-04-29 Bridging the gap between laser physics and applied mathematics, this book offers a new perspective on laser dynamics. Combining fresh treatments of classic problems with up-to-date research, asymptotic techniques appropriate for nonlinear dynamical systems are shown to offer a powerful alternative to numerical simulations. The combined analytical and experimental description of dynamical instabilities provides a clear derivation of physical formulae and an evaluation of their significance. Starting with the observation of different time scales of an operating laser, the book develops approximation techniques to systematically explore their effects. Laser dynamical regimes are introduced at different levels of complexity, from standard turn-on experiments to stiff, chaotic, spontaneous or driven pulsations. Particular attention is given to quantitative comparisons between experiments and theory. The book broadens the range of analytical tools available to laser physicists and provides applied mathematicians with problems of practical interest, making it invaluable for graduate students and researchers.

Relativistic Free Electrons in an Intense Laser Field-Anthony R. Valenzuela 2005

Fourier Series and Optical Transform Techniques in Contemporary Optics-Raymond G. Wilson 1995-05-29 This book covers the applications of Fourier methods and linear systems theory to optical diffraction and imaging, and it will be of use to anyone seeking an understanding of Fourier series and Fourier transforms of one-and two-dimensional structures.

Wavelength-agile Rayleigh Scattering by Use of an Atomic Vapor Cell-Amanda Pertzborn 2005

International Conference on Adaptive Structures- 2000

Fourier Ptychographic Imaging-Guoan Zheng 2016-06-30 This book demonstrates the concept of Fourier ptychography, a new imaging technique that bypasses the resolution limit of the employed optics. In particular, it transforms the general challenge of high-throughput, high-resolution imaging from one that is coupled to the physical limitations of the optics to one that is solvable through computation. Demonstrated in a tutorial form and providing many MATLAB® simulation examples for the reader, it also discusses the experimental implementation and recent developments of Fourier ptychography. This book will be of interest to researchers and engineers learning simulation techniques for Fourier optics and the Fourier ptychography concept.

Photonics 2000-Central Glass and Ceramic Research Institute (Kolkata, India) 2001

Ultra-Fast Fiber Lasers-Le Nguyen Binh 2010-07-19 Ultrashort pulses in mode-locked lasers are receiving focused attention from researchers looking to apply them in a variety of fields, from optical clock technology to measurements of the fundamental constants of nature and ultrahigh-speed optical communications. Ultrashort pulses are especially important for the next generation of ultrahigh-speed optical systems and networks operating at 100 Gbps per carrier. Ultra Fast Fiber Lasers: Principles and Applications with MATLAB® Models is a self-contained reference for engineers and others in the fields of applied photonics and optical communications. Covering both fundamentals and advanced research, this book includes both theoretical and experimental results. MATLAB files are included to provide a basic grounding in the simulation of the generation of short pulses and the propagation or circulation around nonlinear fiber rings. With its unique and extensive content, this volume— Covers fundamental principles involved in the generation of ultrashort pulses employing fiber ring lasers, particularly those that incorporate active optical modulators of amplitude or phase types Presents experimental techniques for the generation, detection, and characterization of ultrashort pulse sequences derived from several current schemes Describes the multiplication of ultrashort short pulse sequences using the Talbot diffraction effects in the time domain via the use of highly dispersive media Discusses developments of multiple short pulses in the form of solitons binding together by phase states Elucidates the generation of short pulse sequences and multiple wavelength channels from a single fiber laser The most practical short pulse sources are always found in the form of guided wave photonic structures. This minimizes problems with alignment and eases coupling into fiber transmission systems. In meeting these requirements, fiber ring lasers operating in active mode serve well as suitable ultrashort pulse sources. It is only a matter of time before scientists building on this research would the practical and easy-to-use applications that will make ultrahigh-speed optical systems universally available.

Electronic Circuits with MATLAB, PSpice, and Smith Chart-Won Y. Yang 2020-01-15 Provides practical examples of circuit design and analysis using PSpice, MATLAB, and the Smith Chart This book presents the three technologies used to deal with electronic circuits: MATLAB, PSpice, and Smith chart. It gives students, researchers, and practicing engineers the necessary design and modeling tools for validating electronic design concepts involving bipolar junction transistors (BJTs), field-effect transistors (FET), OP Amp circuits, and analog filters. Electronic Circuits with MATLAB®, PSpice®, and Smith Chart presents analytical solutions with the results of MATLAB analysis and PSpice simulation. This gives the reader information about the state of the art and confidence in the legitimacy of the solution, as long as the solutions obtained by using the two software tools agree with each other. For representative examples of impedance matching and filter design, the solution using MATLAB and Smith chart (Smith V4.1) are presented for comparison and crosscheck. This approach is expected to give the reader confidence in, and a deeper understanding of, the solution. In addition, this text: Increases the reader's understanding of the underlying processes and related equations for the design and analysis of circuits Provides a stepping stone to RF (radio frequency) circuit design by demonstrating how MATLAB can be used for the design and implementation of microstrip filter Features two chapters dedicated to the application of Smith charts and two-port network theory Electronic Circuits with MATLAB®, PSpice®, and Smith Chart will be of great benefit to practicing engineers and graduate students interested in circuit theory and RF circuits.

Practical Image and Video Processing Using MATLAB-Oge Marques 2011-08-04 UP-TO-DATE, TECHNICALLY ACCURATE COVERAGE OF ESSENTIAL TOPICS IN IMAGE AND VIDEO PROCESSING This is the first book to combine image and video processing with a practical MATLAB®-oriented approach in order to demonstrate the most important image and video techniques and algorithms. Utilizing minimal math, the contents are presented in a clear, objective manner, emphasizing and encouraging experimentation. The book has been organized into two parts. Part I: Image Processing begins with an overview of the field, then introduces the fundamental concepts, notation, and terminology associated with image representation and basic image processing operations. Next, it discusses MATLAB® and its Image Processing Toolbox with the start of a series of chapters with hands-on activities and step-by-step tutorials. These chapters cover image acquisition and digitization; arithmetic, logic, and geometric operations; point-based, histogram-based, and neighborhood-based image enhancement techniques; the Fourier Transform and relevant frequency-domain image filtering techniques; image restoration; mathematical morphology, edge detection techniques; image segmentation; image compression and coding; and feature extraction and representation. Part II: Video Processing presents the main concepts and terminology associated with analog video signals and systems, as well as digital video formats and standards. It then describes the technically involved problem of standards conversion, discusses motion estimation and compensation techniques, shows how video sequences can be filtered, and concludes with an example of a solution to object detection and tracking in video sequences using MATLAB®. Extra features of this book include: More than 30 MATLAB® tutorials, which consist of step-by-step guides toexploring image and video processing techniques using MATLAB® Chapters supported by figures, examples, illustrative problems, and exercises Useful websites and an extensive list of bibliographical references This accessible text is ideal for upper-level undergraduate and graduate students in digital image and video processing courses, as well as for engineers, researchers, software developers, practitioners, and anyone who wishes to learn about these increasingly popular topics on their own.

Numerical Simulation of Optical Wave Propagation with Examples in MATLAB-Jason Daniel Schmidt 2010 Numerical Simulation of Optical Wave Propagation is solely dedicated to wave-optics simulations. The book discusses digital Fourier transforms (FT), FT-based operations, multiple methods of wave-optics simulations, sampling requirements, and simulations in atmospheric turbulence.

Laser Optoelectronic Oscillators-Alexander A. Bortsov 2020-09-10 This book is devoted to the theoretical and experimental investigation of the optoelectronic oscillator (OEO) with direct and external modulation of laser emission. Such devices, sources of precision radio frequency oscillations using laser excitation, are novel and technologically relevant, with manifold possible applications. The book includes a review of the present state of the theory and generation techniques in microwave and mm-wave ranges for traditional and optoelectronic oscillators, description of OEO construction and operation principles, theoretical oscillation analysis and mathematical description of the relevant semi-classical laser physics, and investigation of the power spectral density of noises. Technical features and advantages of OEOs with external and direct modulation of laser emission are discussed together with functional diagrams. The characteristics of OEOs are compared with other traditional RF oscillators, such as quartz, surface acoustic waves, and oscillators with electromagnetic wave cavities. Special attention is paid to Q-factors and phase noises of RF carriers at small offsets. The authors discuss the technical characteristics of modern optoelectronic methods for precision RF oscillation formation, such as commercial large-dimension and compact quantum frequency standards with optical pumping on cesium and rubidium cells. This book is aimed at scientists and engineers in academia and industry who work with sources of microwave and mm-wave signals.

LiDAR Technologies and Systems-Paul F. McManamon 2019 "LiDAR technology and Systems is a tutorial book, covering LiDAR Technology. The introduction sets lidar in context, as one of many sensor technologies utilizing electro-magnetic radiation. LiDAR is in the optical and infrared wavelengths, and it is an active sensor, which collects reflected EM radiation. It is similar to more familiar passive EO/IR sensors in wavelength, and similar to radar in that it uses reflected radiation emitted by the sensor. The second chapter goes the > 50 years of lidar history. Chapter 3 covers the link budget - how much signal a LiDAR must emit in order to get a certain number of reflected photons back. Chapter 4 discusses the rich phenomenology of LiDAR. One of the strengths of LiDAR is its' diverse phenomenology's. As a result, there are many flavors of LiDAR. The most common is 3D imaging, but there are many other types of lidars, with different measurement objectives. The next 4 chapters discuss components of a LiDAR. Chapter 5 discusses laser sources, chapter 6 LiDAR receivers, chapter 7 beam steering approaches, and chapter 8 LiDAR processing. The last 3 chapters are testing, metrics, and applications. Chapter 11, the applications chapter, picks 4 popular applications and discusses these LiDARs, and how to build them, for these applications. Chapter 11 as a result will repeat some information in earlier chapters, but in the context of a particular application"--

Wireless Optical Communication Systems-Save Hranilovic 2006-01-16 This volume addresses the problem of designing efficient signalling and provides a link between the areas of communication theory and modem design for amplitude constrained linear optical intensity channel. It provides practical guidelines for the design of signalling sets for wireless optical intensity channels.

Problem Solutions for Diode Lasers and Photonic in Tegrated Circuits-JOHN WILEY & SONS INC 1998-03-01

Emerging Challenges for Experimental Mechanics in Energy and Environmental Applications, Proceedings of the 5th International Symposium on Experimental Mechanics and 9th Symposium on Optics in Industry (ISEM-SOI), 2015-Amalia Martínez-García 2016-10-13 This book contains papers of the 5th International Symposium on Experimental Mechanics (5-ISEM) and the 9th Symposium on Optics in Industry (9-SOI), whose general theme is Emerging Challenges for Experimental Mechanics in Energy and Environmental Applications. These symposia are organized by Centro de Investigaciones en Optica (CIO) and Mexican Academy for Optics (AMO), under the sponsorship of the Society of Experimental Mechanics (SEM) and other national and international Organizations; Symposia are interdisciplinary forums for engineers, technicians, researchers and managers involved in all fields of Optics, Opto-mechanics, Mechanics and Mechanical Engineering. · Addresses a broad readership including graduate and postgraduate students, researchers, and engineers working in experimental mechanics and in the application of optical methods · Covers a broad spectrum of topics highlighting the use of optical methods in experimental mechanics, energy, and in the environment

Electrical & Electronics Abstracts- 1997

High Performance Control of AC Drives with Matlab / Simulink Models-Haitham Abu-Rub 2012-04-13 A comprehensive guide to understanding AC machines with exhaustive simulation models to practice design and control Nearly seventy percent of the electricity generated worldwide is used by electrical motors. Worldwide, huge research efforts are being made to develop commercially viable three- and multi-phase motor drive systems that are economically and technically feasible. Focusing on the most popular AC machines used in industry - induction machine and permanent magnet synchronous machine - this book illustrates advanced control techniques and topologies in practice and recently deployed. Examples are drawn from important techniques including Vector Control, Direct Torque Control, Nonlinear Control, Predictive Control, multi-phase drives and multilevel inverters. Key features include: systematic coverage of the advanced concepts of AC motor drives with and without output filter; discussion on the modelling, analysis and control of three- and multi-phase AC machine drives, including the recently developed multi-phase-phase drive system and double fed induction machine; description of model predictive control applied to power converters and AC drives, illustrated together with their simulation models; end-of-chapter questions, with answers and PowerPoint slides available on the companion website www.wiley.com/go/aburub_control This book integrates a diverse range of topics into one useful volume, including most the latest developments. It provides an effective guideline for students and professionals on many vital electric drives aspects. It is an advanced textbook for final year undergraduate and graduate students, and researchers in power electronics, electric drives and motor control. It is also a handy tool for specialists and practicing engineers wanting to develop and verify their own algorithms and techniques.

Design and Fabrication of Diffractive Optical Elements with MATLAB-Shanti Bhattacharya 2017 "Given the many different applications and uses of diffractive optics, the importance of this field cannot be underestimated. This book supplements the available literature on diffractive optic elements (DOEs) by equipping readers with the skills to begin designing, simulating, and fabricating diffractive optics. The design of DOEs is presented with simple equations and step-by-step procedures for simulation—from the simplest 1D grating to the more complex multifunctional DOEs—and analyzing their diffraction patterns using MATLAB. The fundamentals of fabrication techniques such as photolithography, electron beam lithography, and focused ion beam lithography with basic instructions for the beginner are presented. Basic error analysis and error-correction techniques for a few cases are also discussed. The contents of all the chapters are supported throughout by practical exercises and clearly commented MATLAB® codes (the codes are also on an accompanying CD), making this book useful even to a novice programmer"--

Optics Letters- 2007

Dissertation Abstracts International- 2006

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