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Le Nguyen Binh



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Contemporary Optical Image Processing with MATLAB T.-C. Poon, P.P. Banerjee, 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 *Guided Wave Photonics* Le Nguyen Binh, 2016-04-19 A comprehensive presentation of the theory and simulation of optical waveguides and wave propagations in a guided environment Guided Wave Photonics Fundamentals and Applications with MATLAB supplies fundamental and advanced understanding of integrated optical devices that are currently employed in modern optical fiber communications systems and p **Optical Fiber Communication Systems with MATLAB® and Simulink® Models** Le Nguyen Binh, 2014-12-01 Carefully structured to instill practical knowledge of fundamental issues Optical Fiber Communication Systems with MATLAB and Simulink Models describes the modeling of optically amplified fiber communications systems using MATLAB and Simulink This lecture based book focuses on concepts and interpretation mathematical procedures and engineering **Computational Photonics** Marek S. Wartak, 2013-01-10 A comprehensive manual on the efficient modeling and analysis of photonic devices for graduate students and researchers in engineering and physics **Optical Fiber Communications Systems** Le Nguyen Binh, 2011-06-08 Carefully structured to provide practical knowledge on fundamental issues Optical Fiber Communications Systems Theory and Practice with MATLAB and Simulink Models explores advanced modulation and transmission techniques of lightwave communication systems With coverage ranging from fundamental to modern aspects the text presents optical communic **Advanced Fiber Optics** Luc Thevenaz, 2011-04-04 This book provides a comprehensive treatment of the field of modern fiber optics beginning with the basics of the field summarized in an introductory chapter Expert contributors then topics such as polarization effects in optical fibers photonic crystal fibers highly doped optical fibers non linear effects amplification and lasing in optical fibers supercontinuum generation Rayleigh and inelastic scattering with applications to sensing optical fiber point sensors and polymer optical fiber based sensors

Parallel Computational Technologies Leonid Sokolinsky, Mikhail Zymbler, 2023-07-24 This book constitutes the refereed post proceedings of the 17th International Conference on Parallel Computational Technologies PCT 2023 held in Saint Petersburg Russia during March 28 30 2023 The 25 full papers included in this book were carefully reviewed and selected from 71 submissions They were organized in topical sections as follows High Performance Architectures Tools and Technologies Parallel Numerical Algorithms and Supercomputer Simulation Wireless and Guided Wave Electromagnetics Le Nguyen Binh, 2017-07-12 Wireless communications allow high speed mobile access to a global Internet based on ultra wideband backbone intercontinental and terrestrial networks Both of these environments support the carrying of information via electromagnetic waves that are wireless in free air or guided through optical fibers Wireless and Guided Wave Electromagnetics Fundamentals and Applications explores the fundamental aspects of electromagnetic waves in wireless media and wired guided media This is an essential subject for engineers and physicists working with communication technologies mobile networks and optical communications This comprehensive book Builds from the basics to modern topics in electromagnetics for wireless and optical fiber communication Examines wireless radiation and the guiding of optical waves which are crucial for carrying high speed information in long reach optical networking scenarios Explains the physical phenomena and practical aspects of guiding optical waves that may not require detailed electromagnetic solutions Explores applications of electromagnetic waves in optical communication systems and networks based on frequency domain transfer functions in the linear regions which simplifies the physical complexity of the waves but still allows them to be examined from a system engineering perspective Uses MATLAB and Simulink models to simulate and illustrate the electromagnetic fields Includes worked examples laboratory exercises and problem sets to test understanding The book's modular structure makes it suitable for a variety of courses for self study or as a resource for research and development Throughout the author emphasizes issues commonly faced by engineers Going a step beyond traditional electromagnetics textbooks this book highlights specific uses of electromagnetic waves with a focus on the wireless and optical technologies that are increasingly important for high speed transmission over very long distances **Radio Wave Propagation and Parabolic Equation Modeling** Gokhan Apaydin, Levent Sevgi, 2017-10-16 An important contribution to the literature that introduces powerful new methods for modeling and simulating radio wave propagation A thorough understanding of electromagnetic wave propagation is fundamental to the development of sophisticated communication and detection technologies The powerful numerical methods described in this book represent a major step forward in our ability to accurately model electromagnetic wave propagation in order to establish and maintain reliable communication links to detect targets in radar systems and to maintain robust mobile phone and broadcasting networks The first new book on guided wave propagation modeling and simulation to appear in nearly two decades Radio Wave Propagation and Parabolic Equation Modeling addresses the fundamentals of electromagnetic wave propagation generally with a specific focus on radio wave propagation through

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Discrete Fourier And Wavelet Transforms: An Introduction Through Linear Algebra With Applications To Signal Processing Roe W Goodman,2016-01-21 This textbook for undergraduate mathematics science and engineering students introduces the theory and applications of discrete Fourier and wavelet transforms using elementary linear algebra without assuming prior knowledge of signal processing or advanced analysis It explains how to use the Fourier matrix to extract frequency information from a digital signal and how to use circulant matrices to emphasize selected frequency ranges It introduces discrete wavelet transforms for digital signals through the lifting method and illustrates through examples and computer explorations how these transforms are used in signal and image processing Then the general theory of discrete wavelet transforms is developed via the matrix algebra of two channel filter banks Finally wavelet transforms for analog signals are constructed based on filter bank results already presented and the mathematical framework of multiresolution analysis is examined

Engineering Optics With Matlab® (Second Edition) Ting-chung Poon,Taegeun Kim,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

Impact of the Physical Layer Impairments on Optical Fiber Communication Systems Helena Xuehong Chen Feng,2002

Laser Beam Propagation in Nonlinear Optical Media Shekhar Guha,2017-12-19 This is very unique and promises to be an extremely useful guide to a host of workers in the field They have given a generalized presentation likely to cover most if not all situations to be encountered in the laboratory yet also highlight several specific examples that clearly illustrate the methods They have provided an admirable contribution to the community If someone makes their living by designing lasers optical parametric oscillators or other devices employing

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Optical Communications from a Fourier Perspective Palle Jeppesen, Bjarne Tromborg, 2023-11-17 Optical Communications from a Fourier Perspective Fourier Theory and Optical Fiber Devices and Systems covers a broad range of subjects spanning Fourier theory and signal analysis over photonic components including time lenses in optical communication Some of the theory is more generally applicable beyond optical communication and is of relevance also for communications engineering The Fourier theory dimension of the book presents the relationship between Fourier series and Fourier integrals and also the related Laplace transform The book covers wave propagation in optical waveguides based on Maxwell equations and the nonlinear Schrödinger equation Various modulation formats are addressed along with coherent detection and required bandwidth Optical Fourier transform in the form of time lens is covered for example in modulation format conversion and spectrum magnification and couplers and their use for optical discrete Fourier transformation are also discussed Other important subjects such as noise linewidth and coherence are discussed in relation to semiconductor lasers Detailed derivations and a deeper background for the chapters are provided in appendices where appropriate Introduces Fourier theory and signal analysis tailored to applications in optical communications devices and systems Provides a strong theoretical background and a ready resource for researchers and advanced students in optical communication and optical signal processing Starts from basic theory and then develops descriptions of useful applications

Nonlinear Dispersive Equations Christian Klein, Jean-Claude Saut, 2022-02-23 Nonlinear Dispersive Equations are partial differential equations that naturally arise in physical settings where dispersion dominates dissipation notably hydrodynamics nonlinear optics plasma physics and Bose Einstein condensates The topic has traditionally been approached in different ways from the perspective of modeling of physical phenomena to that of the theory of partial differential equations or as part of the theory of integrable systems This monograph offers a thorough introduction to the topic uniting the modeling PDE and

integrable systems approaches for the first time in book form The presentation focuses on three universal families of physically relevant equations endowed with a completely integrable member the Benjamin-Ono-Davey-Stewartson and Kadomtsev-Petviashvili equations These asymptotic models are rigorously derived and qualitative properties such as soliton resolution are studied in detail in both integrable and non-integrable models Numerical simulations are presented throughout to illustrate interesting phenomena By presenting and comparing results from different fields the book aims to stimulate scientific interactions and attract new students and researchers to the topic To facilitate this the chapters can be read largely independently of each other and the prerequisites have been limited to introductory courses in PDE theory

Photonics Modeling and Design Slawomir Sujecki, 2018-09-03 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

Supercontinuum Generation in Optical Fibers J. M. Dudley, J. R. Taylor, 2010-04-01 The optical fiber based supercontinuum source has recently become a significant scientific and commercial success with applications ranging from frequency comb production to advanced medical imaging This one-of-a-kind book explains the theory of fiber supercontinuum broadening describes the diverse operational regimes and indicates principal areas of applications making it a very important guide for researchers and graduate students With contributions from major figures and groups who have pioneered research in this field the book describes the historical development of the subject provides a background to the associated nonlinear optical processes treats the generation mechanisms from continuous wave to femtosecond pulse pump regimes and highlights the diverse applications A full discussion of numerical methods and comprehensive computer code are also provided enabling readers to confidently predict and model supercontinuum generation characteristics under realistic conditions

Fourier Transforms Goran Nikolic, 2011-04-01 New analytical strategies and techniques are necessary to meet requirements of modern technologies and new materials In this sense this book provides a thorough review of current analytical approaches industrial practices and strategies in Fourier transform application

Nonlinear Optics and Applications II Mario Bertolotti, 2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Advances in Computing, Communication and Control Srija Unnikrishnan, Sunil Surve, Deepak Bhoir, 2011-01-14 This book constitutes the refereed proceedings of the International Conference on Advances in Computing Communications and Control ICAC3 2011 held in Mumbai India in January 2011 The 84 revised full papers presented were carefully reviewed and selected from 309 submissions The papers address issues such as AI artificial neural networks computer graphics data warehousing and mining distributed computing geo information and statistical computing learning algorithms system security virtual reality cloud computing service oriented architecture semantic web coding techniques modeling and simulation of communication systems network architecture network protocols optical fiber microwave communication satellite communication speech image processing wired and wireless communication cooperative control and nonlinear control process control and instrumentation industrial automation controls in aerospace robotics and power systems

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **An Introduction To The Split Step Fourier Method Using Matlab**

In a world inundated with monitors and the cacophony of fast interaction, the profound energy and emotional resonance of verbal art often fade into obscurity, eclipsed by the continuous onslaught of noise and distractions. However, situated within the lyrical pages of **An Introduction To The Split Step Fourier Method Using Matlab**, a captivating perform of literary elegance that impulses with fresh thoughts, lies an unforgettable trip waiting to be embarked upon. Written by a virtuoso wordsmith, that enchanting opus books viewers on an emotional odyssey, softly revealing the latent possible and profound affect embedded within the elaborate internet of language. Within the heart-wrenching expanse of the evocative analysis, we will embark upon an introspective exploration of the book is central themes, dissect their fascinating writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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