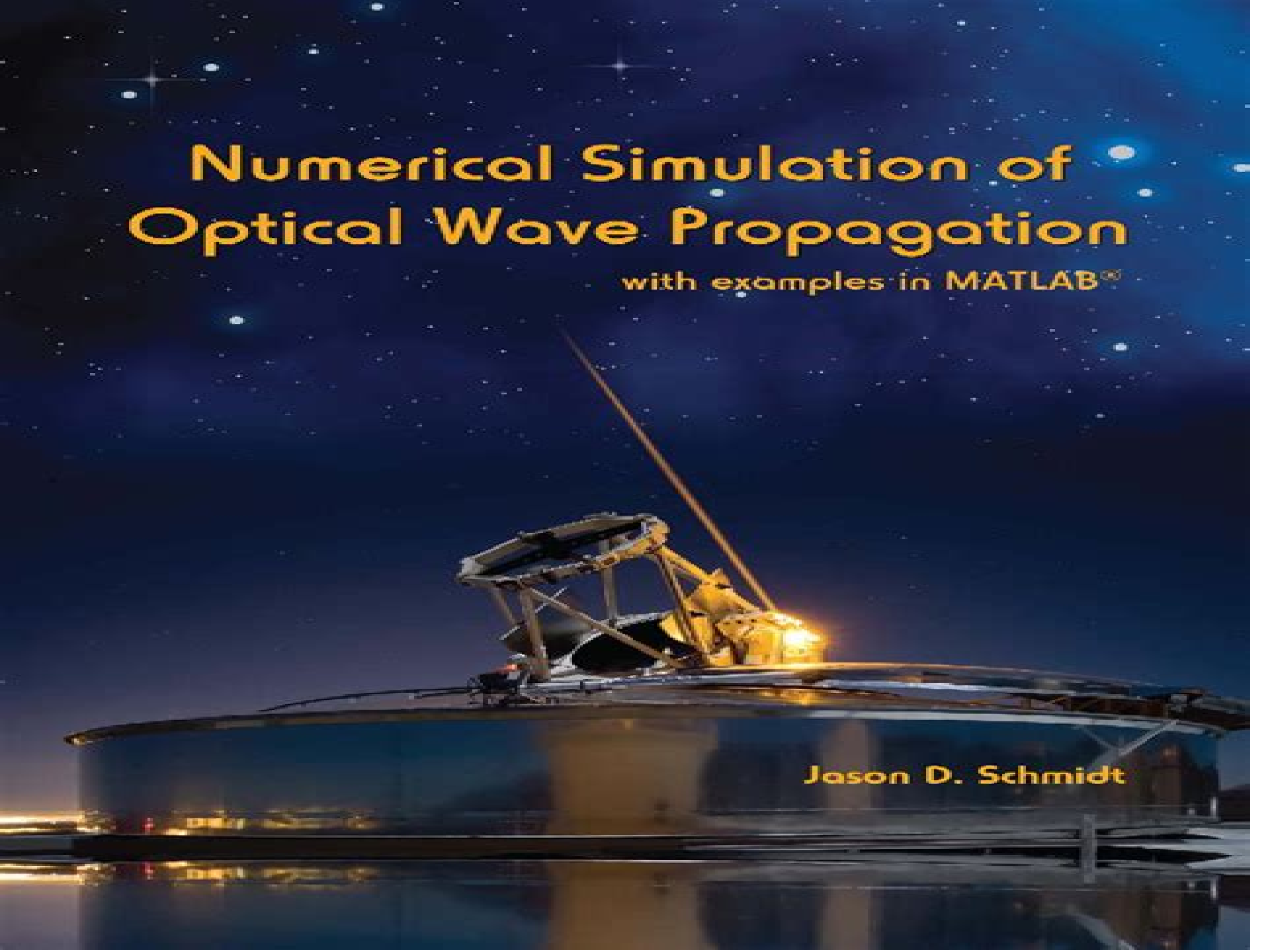


Numerical Simulation of Optical Wave Propagation

with examples in MATLAB®

Jason D. Schmidt



Numerical Simulation Of Optical Wave Propagation With Examples In Matlab

**Dac-Nhuong Le, Abhishek Kumar
Pandey, Sairam Tadepalli, Pramod
Singh Rathore, Jyotir Moy Chatterjee**

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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 Advanced Optical and Wireless Communications Systems Ivan B. Djordjevic, 2022-06-21 The new edition of this popular textbook keeps its structure introducing the advanced topics of i wireless communications ii free space optical FSO communications iii indoor optical wireless IR communications and iv fiber optics communications but thoroughly updates the content for new technologies and practical applications The author presents fundamental concepts such as propagation principles modulation formats channel coding diversity principles MIMO signal processing multicarrier modulation equalization adaptive modulation and coding detection principles and software defined transmission first describing them and then following up with a detailed look at each particular system The book is self contained and structured to provide straightforward guidance to readers looking to capture fundamentals and gain theoretical and practical knowledge about wireless communications free space optical communications and fiber optics communications all which can be readily applied in studies research and practical applications The textbook is intended for an upper undergraduate or graduate level courses in fiber optics communication wireless communication and free space optical communication problems an appendix with all background material needed and homework problems In the second edition in addition to the existing chapters being updated and problems being inserted one new chapter has been added related to the physical layer security thus covering both security and reliability issues New material on 5G and 6G technologies has been added in corresponding chapters *Biomedical Imaging* Tim Salditt, Timo Aspelmeier, Sebastian Aeffer, 2017-10-23 Covering both physical as well as mathematical and algorithmic foundations this graduate textbook provides the reader with an introduction into modern biomedical imaging and image processing and reconstruction These techniques are not only based on advanced instrumentation for image acquisition but equally on new developments in image processing and reconstruction to extract relevant information from recorded data To this end the present book offers a quantitative treatise of radiography computed tomography and medical physics Contents Introduction Digital image processing Essentials of medical x ray physics Tomography Radiobiology radiotherapy and radiation protection Phase contrast radiography Object reconstruction under nonideal conditions Smart Algorithms for Multimedia and Imaging Michael N. Rychagov, Ekaterina V. Tolstaya, Mikhail Y. Sirotenko, 2021-05-05 This book presents prospective industrially proven methods and software solutions for storing processing and viewing multimedia content on digital cameras camcorders TV and mobile devices Most of the algorithms described here are implemented as systems on chip firmware or as software products and have low computational complexity and memory consumption In the four parts of the book which contains a

total of 16 chapters the authors address solutions for the conversion of images and videos by super resolution depth estimation and control and mono to stereo 2D to 3D conversion display applications by video editing the real time detection of sport episodes and the generation and reproduction of natural effects The practical principles of machine learning are illustrated using technologies such as image classification as a service mobile user profiling and automatic view planning with dictionary based compressed sensing in magnetic resonance imaging The implementation of these technologies in mobile devices is discussed in relation to algorithms using a depth camera based on a colour coded aperture the animated graphical abstract of an image a motion photo and approaches and methods for iris recognition on mobile platforms The book reflects the authors practical experience in the development of algorithms for industrial R Offers essential algorithms for the processing pipeline in multimedia devices and accompanying software tools Features advanced topics on data processing addressing current technology challenges

Network Modeling, Simulation and Analysis in MATLAB Dac-Nhuong Le, Abhishek Kumar Pandey, Sairam Tadepalli, Pramod Singh Rathore, Jyotir Moy Chatterjee, 2019-08-06 The purpose of this book is first to study MATLAB programming concepts then the basic concepts of modeling and simulation analysis particularly focus on digital communication simulation The book will cover the topics practically to describe network routing simulation using MATLAB tool It will cover the dimensions like Wireless network and WSN simulation using MATLAB then depict the modeling and simulation of vehicles power network in detail along with considering different case studies Key features of the book include Discusses different basics and advanced methodology with their fundamental concepts of exploration and exploitation in NETWORK SIMULATION Elaborates practice questions and simulations in MATLAB Student friendly and Concise Useful for UG and PG level research scholar Aimed at Practical approach for network simulation with more programs with step by step comments Based on the Latest technologies coverage of wireless simulation and WSN concepts and implementations

Remote Sensing of Turbulence Victor Raizer, 2021-10-03 This book offers a unique multidisciplinary integration of the physics of turbulence and remote sensing technology Remote Sensing of Turbulence provides a new vision on the research of turbulence and summarizes the current and future challenges of monitoring turbulence remotely The book emphasizes sophisticated geophysical applications detection and recognition of complex turbulent flows in oceans and the atmosphere Through several techniques based on microwave and optical IR observations the text explores the technological capabilities and tools for the detection of turbulence their signatures and variability FEATURES Covers the fundamental aspects of turbulence problems with a broad geophysical scope for a wide audience of readers Provides a complete description of remote sensing capabilities for observing turbulence in the earth s environment Establishes the state of the art remote sensing techniques and methods of data analysis for turbulence detection Investigates and evaluates turbulence detection signatures their properties and variability Provides cutting edge remote sensing applications for space based monitoring and forecasts of turbulence in oceans and the atmosphere This book is a great

resource for applied physicists the professional remote sensing community ecologists geophysicists and earth scientists
International Aerospace Abstracts ,1997 *Government Reports Announcements & Index* ,1994-03 **Irish Signals and Systems Conference** ,2006 *Numerical Simulation of Optical Wave Propagation Through Random Media* Jeongki Pack,1988 **MATLAB Implementation of a Fourier Approach to Optical Wave Propagation** Nicholas Lee,Naval Postgraduate School (U.S.),1998-09-01 This thesis explores a MATLAB implementation of a Fourier transform approach to model and predict transient optical wave propagation through free space A three step approach is adopted in this study First the mathematical development establishes the importance of the total impulse response as the Green s function meeting the boundary conditions and solving the wave equation Second a MATLAB program is developed to simulate the mathematical model by computing and displaying the graphical representation of an optical wave s spatial distribution on a plane at a given distance from a spatially filtered source Third a circular excitation function is used to verify the program and then the results of another three excitations namely the square circularly truncated Gaussian and circularly truncated Bessel functions are similarly generated The effort of this thesis provides an inexpensive means to analyze a transient optical wave propagation of a spatially filtered optical source **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 various media The authors explore an array of new applications and detail various virtual electromagnetic tools for solving several frequent electromagnetic propagation problems All of the methods described are presented within the context of real world scenarios typifying the differing effects of various environments on radio wave propagation This valuable text Addresses groundwave and surface wave propagation Explains radar applications in terms of parabolic equation modeling and simulation approaches Introduces several simple and sophisticated MATLAB scripts Teaches applications that work with a wide range of electromagnetic acoustic and optical wave propagation modeling Presents the material in a quick reference format ideal for busy researchers and engineers Radio Wave Propagation and Parabolic Equation Modeling is a critical resource forelectrical electronics communication and computer engineers working on industrial and military applications that rely on the directed propagation of radio waves It is also a useful reference for advanced engineering students and academic researchers

Dissertation Abstracts International ,2002 **Mathematical Reviews** ,2007 **Cornell University Courses of Study** Cornell University,2003 *Electrical & Electronics Abstracts* ,1997 Stanford Bulletin ,2006 **2004 IEEE Nuclear Science Symposium Conference Record** ,2004 **Microcomputer Simulation of a Fourier Approach to Optical Wave Propagation** John G. Upton,1992 **Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards** ,2007

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