



Ting-Chang Poon

# Optical Scanning Holography with MATLAB®

 Springer

# Optical Scanning Holography With Matlab

**Gabriel Cristobal, Peter  
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**Optical Scanning Holography with MATLAB®** Ting-Chung Poon, 2007-04-10 Optical scanning holography OSH is an emerging area of interest with many potential novel applications such as 3 D pattern recognition 3 D microscopy 3 D cryptography and 3 D optical remote sensing Optical Scanning Holography with MATLAB introduces readers to the latest advances of electronic or digital holography and succinctly covers the necessary mathematical background and wave optics that pertain to Fourier optics and holography The reader is guided through modeling of the theory and applications utilizing MATLAB Optical scanning holography is explained in a manner that enables readers to begin implementing their own setups for novel OSH applications Optical Scanning Holography with MATLAB consists of tutorials with numerous MATLAB examples throughout the text and research material as well as new ideas and insights for graduate students scientists and engineers working in the fields of Fourier optics optical scanning imaging and holography

**Introduction to Modern Digital Holography** Ting-Chung Poon, Jung-Ping Liu, 2014-01-23 Building up from the basic principles of optics this straightforward introduction to digital holography aimed at graduate students engineers and researchers describes modern techniques and applications plus all the necessary underlying theory Supporting Matlab code is available for download online and homework problems are accompanied by an instructor solution manual

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

**Modern Information Optics with MATLAB** Yaping Zhang, Ting-Chung Poon, 2023-01-05 An easy to understand course book based on the authentic lectures and detailed research conducted by the authors themselves on information optics holography and MATLAB This book is the first to highlight the incoherent optical system provide up to date novel digital holography techniques and demonstrate MATLAB codes to accomplish tasks such as optical image processing and pattern recognition This title is a comprehensive introduction to the basics of Fourier optics as well as optical

image processing and digital holography A step by step guide which details the vast majority of the derivations without omitting essential steps to facilitate a clear mathematical understanding This book also features exercises at the end of each chapter providing hands on experience and consolidating understanding An ideal companion for graduates and researchers involved in engineering and applied physics as well as interested in the growing field of information optics

**Computer-Generated Phase-Only Holograms for 3D Displays** Peter Wai Ming Tsang,2021-01-21 Explore core concepts theories and formulations of phase only Fresnel holograms which paves the way for 3 D holographic display system

**Handbook of Research on Big Data Storage and Visualization Techniques** Segall, Richard S.,Cook, Jeffrey S.,2018-01-05 The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries Challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields Featuring coverage on a broad range of topics such as architecture patterns programing systems and computational energy this publication is geared towards professionals researchers and students seeking current research and application topics on the subject

Holographic Imaging Using Aperture Modulation Abdallah Hamed,2025-09-29 This book highlights the formation of holographic images using modulated apertures across eleven comprehensive chapters It begins with a summary of basic Fourier transformations used to compute diffraction patterns of well known objects The fundamentals of holography are outlined followed by an investigation of Fourier holographic images obtained using argon plasma This book also explores Fourier holographic images using modulated Hamming apertures and discusses the use of scanning holography with linear and quadratic apertures Advanced topics include the processing and segmentation of cancerous mammographic images using improved Fourier holograms and the detailed study of Fourier holographic imaging of modulated apertures The recognition of colored objects and the computation of the point spread function PSF using operator algebra in Gaussian beam illumination are also covered This book concludes with a discussion on pattern recognition and information processing This book serves as an essential resource for researchers and students interested in the advanced techniques and applications of holographic imaging

*Holography, 3D Imaging and 3D Display* Ting-Chung Poon,Yaping Zhang,Liangcai Cao,2021-02-19 Modern holographic techniques have been successfully applied in many important areas such as 3 D inspection 3 D microscopy metrology and profilometry augmented reality and industrial informatics This Special Issue covers selected pieces of cutting edge research works ranging from low level acquisition to high level analysis processing and manipulation of holographic information The Special Issue also serves as a comprehensive review of existing state of the art techniques in

3 D imaging and 3 D display as well as broad insights into the future development of these disciplines The Special Issue contains 25 papers in the field of holography 3 D imaging and 3 D display All the papers underwent substantial peer review under the guidelines of Applied Sciences Optical and Digital Image Processing Gabriel Cristobal, Peter Schelkens, Hugo Thienpont, 2013-02-12 In recent years Moore's law has fostered the steady growth of the field of digital image processing though the computational complexity remains a problem for most of the digital image processing applications In parallel the research domain of optical image processing has matured potentially bypassing the problems digital approaches were suffering and bringing new applications The advancement of technology calls for applications and knowledge at the intersection of both areas but there is a clear knowledge gap between the digital signal processing and the optical processing communities This book covers the fundamental basis of the optical and image processing techniques by integrating contributions from both optical and digital research communities to solve current application bottlenecks and give rise to new applications and solutions Besides focusing on joint research it also aims at disseminating the knowledge existing in both domains Applications covered include image restoration medical imaging surveillance holography etc a very good book that deserves to be on the bookshelf of a serious student or scientist working in these areas Source Optics and Photonics News Introduction to Modern Digital Holography Ting-Chung Poon, Jung-Ping Liu, 2014-01-23 Get up to speed with digital holography with this concise and straightforward introduction to modern techniques and conventions Building up from the basic principles of optics this book describes key techniques in digital holography such as phase shifting holography low coherence holography diffraction tomographic holography and optical scanning holography discussing their practical applications and accompanied by all the theory necessary to understand the underlying principles at work A further chapter covers advanced techniques for producing computer generated holograms Extensive Matlab code is integrated with the text throughout and available for download online illustrating both theoretical results and practical considerations such as aliasing zero padding and sampling Accompanied by end of chapter problems and an online solutions manual for instructors this is an indispensable resource for students researchers and engineers in the fields of optical image processing and digital holography *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 **Computational Optical Phase Imaging** Cheng Liu, Shouyu Wang, Suhas P. Veetil, 2022-04-11 In this book computational optical phase imaging techniques are presented along with Matlab codes that allow the reader to run their

own simulations and gain a thorough understanding of the current state of the art The book focuses on modern applications of computational optical phase imaging in engineering measurements and biomedical imaging Additionally it discusses the future of computational optical phase imaging especially in terms of system miniaturization and deep learning based phase retrieval

Holography Joseph Rosen, 2011-02-28 Holography has recently become a field of much interest because of the many new applications implemented by various holographic techniques This book is a collection of 22 excellent chapters written by various experts and it covers various aspects of holography The chapters of the book are organized in six sections starting with theory continuing with materials techniques applications as well as digital algorithms and finally ending with non optical holograms The book contains recent outputs from researches belonging to different research groups worldwide providing a rich diversity of approaches to the topic of holography

**Handbook of Biomedical Optics** David A. Boas, Constantinos Pitris, Nimmi Ramanujam, 2016-04-19 Biomedical optics holds tremendous promise to deliver effective safe non or minimally invasive diagnostics and targeted customizable therapeutics Handbook of Biomedical Optics provides an in depth treatment of the field including coverage of applications for biomedical research diagnosis and therapy It introduces the theory and fundamental

*Understanding Biophotonics* Kevin Tsia, 2016-01-05 Biophotonics involves understanding how light interacts with biological matter from molecules and cells to tissues and even whole organisms Light can be used to probe biomolecular events such as gene expression and protein protein interaction with impressively high sensitivity and specificity The spatial and temporal distribution of biochemic

**Digital Holography: Applications and Emerging Technologies** Peter Wai Ming Tsang, Tsing-Chung Poon, Yaping Zhang, Pietro Ferraro, 2023-07-13 With the rapid growth of computing and display technologies digital holography DH has undergone significant advancement in the past two decades Contemporary research works have enabled holography a technology which is originally intended for displaying three dimensional 3 D images to be deployed in numerous scientific engineering and bio medical applications Notably digital holography has been incorporated into quite a number of contemporary applications such as but limited to holographic cryptography optical metrology remote sensing and inspection and more recently quantum computing The success attained with DH so far does not limit its development to its current state of the art but rather research on holography keeps on expanding with new ideas and methods keep coming up in a sustainable manner This Research Topic aims to collect representative works from experts in the field with the aim of providing an insight on the overall picture on digital holography as well as reporting existing methodologies and emerging technologies that are likely to have strong impact on future research directions Participating in the Research Topic either as authors or readers also facilitates establishing a platform for researchers to network and to share their knowledge

**Coherent Light Microscopy** Pietro Ferraro, Adam Wax, Zeev Zalevsky, 2011-02-09 This book deals with the latest achievements in the field of optical coherent microscopy While many other books exist on microscopy and imaging this book provides a unique resource dedicated solely to this subject

Similarly many books describe applications of holography interferometry and speckle to metrology but do not focus on their use for microscopy The coherent light microscopy reference provided here does not focus on the experimental mechanics of such techniques but instead is meant to provide a users manual to illustrate the strengths and capabilities of developing techniques The areas of application of this technique are in biomedicine medicine life sciences nanotechnology and materials sciences

**Advances in Imaging and Electron Physics** Peter W. Hawkes, Benjamin Kazan, Tom Mulvey, 2003-05-20 Image processing and a major contribution on microscopy dominate the latest volume of these advances This volume looks at theory and it s application in a practical sense with a full account of the methods used and realistic detailed application The authors do this by examining the latest developments historic illustrations and mathematical fundamentals of the exciting developments in imaging and applying them to realistic practical situations Addressing and solving daily issues faced by researchers consultants and engineers working in this field makes this book essential reading Emphasizes broad and in depth article collaborations between world renowned scientists in the field of image and electron physics Emphasises theory and it s application in a practical sense Provides the FIRST full statement of a radical new approach to phase calibration and the solution of this important and difficult problem pioneered by A Lannes

**Digital Holography and Three-Dimensional Display** Ting-Chung Poon, 2006-09-01 Digital or electronic holography and its application to 3 D display is one of the formidable problems of evolving areas of high technology that has been receiving great attention in recent years Indeed the Holy Grail for 3 D display is the realization of life size interactive 3 D displays Obviously we are not there yet but advances in 3 D display allow us to make important steps towards the Holy Grail The theme of this book is to organize a collection of key chapters that covers digital holography and 3 D display techniques so as to provide the reader with the state of the art developments in these important areas around the world

**Encyclopedia of Modern Optics** Bob D. Guenther, Duncan Steel, 2018-02-14 The Encyclopedia of Modern Optics Second Edition Five Volume Set provides a wide ranging overview of the field comprising authoritative reference articles for undergraduate and postgraduate students and those researching outside their area of expertise Topics covered include classical and quantum optics lasers optical fibers and optical fiber systems optical materials and light emitting diodes LEDs Articles cover all subfields of optical physics and engineering such as electro optical design of modulators and detectors This update contains contributions from international experts who discuss topics such as nano photonics and plasmonics optical interconnects photonic crystals and 2D materials such as graphene or holy fibers Other topics of note include solar energy high efficiency LED s and their use in illumination orbital angular momentum quantum optics and information metamaterials and transformation optics high power fiber and UV fiber lasers random lasers and bio imaging Addresses recent developments in the field and integrates concepts from fundamental physics with applications for manufacturing and engineering design Provides a broad and interdisciplinary coverage of specialist areas Ensures that the material is appropriate for new researchers and those working in a new sub field as well as

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