

Ting-Chung Poon
Editor



Digital Holography and Three-Dimensional Display

Principles and Applications



Springer

Digital Holography And Three Dimensional Display Principles And Applications

**Ting-Chung Poon, Yaping
Zhang, Liangcai Cao**



Digital Holography And Three Dimensional Display Principles And Applications:

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 Digital Holographic Microscopy Myung K. Kim, 2011-08-09 Digital holography is an emerging field of new paradigm in general imaging applications The book presents an introduction to the theoretical and numerical principles and reviews the research and development activities in digital holography with emphasis on the microscopy techniques and applications Topics covered include the general theory of diffraction and holography formations and practical instrumentation and experimentation of digital holography Various numerical techniques are described that give rise to the unique and versatile capabilities of digital holography Representative special techniques and applications of digital holography are discussed The book is intended for researchers interested in developing new techniques and exploring new applications of digital holography *Holography and Its Applications* Michael R. Wang, 2025-05-28 Optical holography is a promising non contact 3D imaging technique Effectively using the coherence property of the light the optical holography can store the interference information of the object light beam with the reference light beam in a holographic recording medium or a digital camera and retrieve read out the 3D image information Optical holography offers storage three dimensional imaging and displays industrial non destructive testing and surface profiling virtual and augmented reality holographic teleconferencing and product design and prototyping This book presents a few recent advancements in holography and its applications

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 Nanomaterials and Nanocomposites, Nanostructure Surfaces, and Their Applications Olena Fesenko, Leonid Yatsenko, 2020-11-25 This book

highlights some of the latest advances in nanotechnology and nanomaterials from leading researchers in Ukraine Europe and beyond It features contributions presented at the 7th International Science and Practice Conference Nanotechnology and Nanomaterials NANO2019 which was held on August 27 30 2019 at Lviv Polytechnic National University and was jointly organized by the Institute of Physics of the National Academy of Sciences of Ukraine University of Tartu Estonia University of Turin Italy and Pierre and Marie Curie University France Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key findings on material properties behavior and synthesis This book s companion volume also addresses topics such as nano optics energy storage and biomedical applications **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 **Holography** Fouad Sabry,2022-02-21 What Is Holography

Holography is a technique that enables a wavefront to be recorded and later re constructed Holography is best known as a method of generating three dimensional images but it also has a wide range of other applications In principle it is possible to make a hologram for any type of wave How You Will Benefit I Insights and validations about the following topics Chapter 1 Holography Chapter 2 Diffraction Chapter 3 Microscopy Chapter 4 Interferometry Chapter 5 Photorefractive effect Chapter 6 Particle image velocimetry Chapter 7 Holographic data storage Chapter 8 Interference lithography Chapter 9 Rainbow hologram Chapter 10 Holographic interferometry Chapter 11 Digital holography Chapter 12 Computer generated holography Chapter 13 Volume hologram Chapter 14 Holographic display Chapter 15 Electronic speckle pattern interferometry Chapter 16 Speckle interference Chapter 17 Digital holographic microscopy Chapter 18 Holographic optical element Chapter 19 Common path interferometer Chapter 20 Physics of optical holography Chapter 21 Time domain holography II Answering the public top questions about holography III Real world examples for the usage of holography in many fields IV 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of holography technologies Who This Book Is For Professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of holography Computer Holography Tomoyoshi

Shimobaba,Tomoyoshi Ito,2019-01-30 This book describes algorithms and hardware implementations of computer holography especially in terms of fast calculation It summarizes the basics of holography and computer holography and describes how conventional diffraction calculations play a central role Numerical implementations by actual codes will also be discussed

This book will explain new fast diffraction calculations such as scaled scalar diffraction Computer Holography will also explain acceleration algorithms for computer generated hologram CGH generation and digital holography with 3D objects composed of point clouds using look up table LUT based algorithms and a wave front recording plane 3D objects composed of polygons using tilted plane diffraction expressed by multi view images and RGB D images will be explained in this book Digital holography including inline off axis Gabor digital holography and phase shift digital holography will also be explored This book introduces applications of computer holography including phase retrieval algorithm holographic memory holographic projection and deep learning in computer holography while explaining hardware implementations for computer holography Recently several parallel processors have been released for example multi core CPU GPU Xeon Phi and FPGA Readers will learn how to apply algorithms to these processors Features Provides an introduction of the basics of holography and computer holography Summarizes the latest advancements in computer generated holograms Showcases the latest researchers of digital holography Discusses fast CGH algorithms and diffraction calculations and their actual codes Includes hardware implementation for computer holography and its actual codes and quasi codes

Ferroelectric Crystals for Photonic Applications Pietro Ferraro, Simonetta Grilli, Paolo De Natale, 2008-09-02 The idea to write a new book in the eld of ferroelectric crystals arose from some considerations reported in the following In the last 5 years several groups all around the world in the eld of engineering and characterization of ferroelectric crystals have published more than 300 papers The motivation for such an intense research activity is referable to the fact that the ferroelectric crystals are a key element for the most attractive and useful photonic and optoelectronic devices In fact during the 60ies the scientists realized that the ferroelectric crystals could have been ciently used to generate new unavailable frequencies taking advantage of the freshly proposed birefringent phase matching method The synchronized rush for the development of novel coherent sources and for the discovery of the best suited nonlinear crystals for mixing and generation had started Consequently the range of applications of ferroelectric crystals has enormously widened in the last years es cially based on the use of periodically poled structures i e PPLN PPLT PPKTP or PPKTA to quasi phase match optical interactions A new generation of sources is nding increasing applications in various elds including high sensitivity trace gas monitoring and any kind of advanced spectroscopic set ups thus replacing old style gas lasers like Argon ion or dye lasers New possibilities are also being plored to engineer ferroelectric crystals with two or three dimensional geometries Results from this eld will allow developing photonic devices combining photonic band gap properties and nonlinear conversion processes i e nonlinear photonic crystals

[Handbook of Laser Technology and Applications](#) Chunlei Guo, Chandra Subhash Singh, 2021-06-23 This comprehensive handbook gives a fully updated guide to lasers and laser technologies including the complete range of their technical applications This forth volume covers laser applications in the medical metrology and communications fields Key Features Offers a complete update of the original bestselling work including many brand new chapters Deepens the introduction to fundamentals from laser

design and fabrication to host matrices for solid state lasers energy level diagrams hosting materials dopant energy levels and lasers based on nonlinear effects Covers new laser types including quantum cascade lasers silicon based lasers titanium sapphire lasers terahertz lasers bismuth doped fiber lasers and diode pumped alkali lasers Discusses the latest applications e g lasers in microscopy high speed imaging attosecond metrology 3D printing optical atomic clocks time resolved spectroscopy polarization and profile measurements pulse measurements and laser induced fluorescence detection Adds new sections on laser materials processing laser spectroscopy lasers in imaging lasers in environmental sciences and lasers in communications This handbook is the ideal companion for scientists engineers and students working with lasers including those in optics electrical engineering physics chemistry biomedicine and other relevant areas *Biomechanical*

Microsystems Vytautas Ostasevicius, Giedrius Janusas, Arvydas Palevicius, Rimvydas Gaidys, Vytautas Jurenas, 2017-03-27 This book presents the most important aspects of analysis of dynamical processes taking place on the human body surface It provides an overview of the major devices that act as a prevention measure to boost a person's motivation for physical activity A short overview of the most popular MEMS sensors for biomedical applications is given The development and validation of a multi level computational model that combines mathematical models of an accelerometer and reduced human body surface tissue is presented Subsequently results of finite element analysis are used together with experimental data to evaluate rheological properties of not only human skin but skeletal joints as well Methodology of development of MOEMS displacement pressure sensor and adaptation for real time biological information monitoring namely ex vivo and in vitro blood pulse type analysis is described Fundamental and conciliatory investigations achieved knowledge and scientific experience about biologically adaptive multifunctional nanocomposite materials their properties and synthesis compatibility periodical microstructures which may be used in various optical components for modern productive sensors formation technologies and their application in medicine pharmacy industries and environmental monitoring are presented and analyzed This book also is aimed at research and development of vibrational energy harvester which would convert ambient kinetic energy into electrical energy by means of the impact type piezoelectric transducer The book proposes possible prototypes of devices for non invasive real time artery pulse measurements and micro energy harvesting **Advanced**

Optical Flow Cytometry Valery V. Tuchin, 2011-03-31 A detailed look at the latest research in non invasive in vivo cytometry and its applications with particular emphasis on novel biophotonic methods disease diagnosis and monitoring of disease treatment at single cell level in stationary and flow conditions This book thus covers the spectrum ranging from fundamental interactions between light cells vascular tissue and cell labeling particles to strategies and opportunities for preclinical and clinical research General topics include light scattering by cells fast video microscopy polarization laser scanning fluorescence Raman multi photon photothermal and photoacoustic methods for cellular diagnostics and monitoring of disease treatment in living organisms Also presented are discussions of advanced methods and techniques of classical flow cytometry

Digital Holographic Methods Stephan Stuerwald, 2018-10-12 This book presents not only the simultaneous combination of optical methods based on holographic principles for marker free imaging real time trapping identification and tracking of micro objects but also the application of substantial low coherent light sources and non diffractive beams It first provides an overview of digital holographic microscopy DHM and holographic optical tweezers as well as non diffracting beam types for minimal invasive real time and marker free imaging as well as manipulation of micro and nano objects It then investigates the design concepts for the optical layout of holographic optical tweezers HOTs and their optimization using optical simulations and experimental methods In a further part the book characterizes the corresponding system modules that allow the addition of HOTs to commercial microscopes with regard to stability and diffraction efficiency Further based on experiments and microfluidic applications it demonstrates the functionality of the combined setup and discusses several types of non diffracting beams and their application in optical manipulation The book shows that holographic optical tweezers including several non diffracting beam types like Mathieu beams combined parabolic and Airy beams not only open up the possibility of generating efficient multiple dynamic traps for micro and nano particles with forces in the pico and nano newton range but also the opportunity to exert optical torque with special beams like Bessel beams which can facilitate the movement and rotation of particles by generating microfluidic flows The last part discusses the potential use of a slightly modified DHM HOT system to explore the functionality of direct laser writing based on a two photon absorption process in a negative photoresist with a continuous wave laser

Hardware Acceleration of Computational Holography Tomoyoshi Shimobaba, Tomoyoshi Ito, 2023-07-17 This book explains the hardware implementation of computational holography and hardware acceleration techniques along with a number of concrete example source codes that enable fast computation Computational holography includes computer based holographic technologies such as computer generated hologram and digital holography for which acceleration of wave optics computation is highly desirable This book describes hardware implementations on CPUs Central Processing Units GPUs Graphics Processing Units and FPGAs Field Programmable Gate Arrays This book is intended for readers involved in holography as well as anyone interested in hardware acceleration **An**

Introduction to Optoelectronic Sensors Giancarlo C. Righini, 2009 Preface Part I Optoelectronic Sensors Technologies 1 Fiber and Integrated Optics Sensors Fundamentals and Applications G C Righini A G Mignani I Cacciari and M Brenci 1 Introduction 2 Fiber and Integrated Optics Fundamentals of Waveguiding 3 Waveguide Sensors Basic Working Principle 4 Fiber Optic Sensors 5 Long Period Optical Fiber Grating Sensors 6 Micro structured Fiber Sensors 7 Integrated Optic Sensors 8 Conclusions References 2 Fiber Bragg Grating Sensors Industrial Applications C Ambrosino A Iadicicco S Campopiano A Cutolo M Giordano and A Cusano 1 Introduction 2 Fiber Bragg Gratings History 3 Fiber Bragg Gratings as Sensors 4 Civil Applications 5 Aerospace Applications 6 Energy Applications 7 Oil and Gas Applications 8 Transport Applications 9 Underwater Applications 10 Perspective and Challenges References 3 Distributed Optical Fiber Sensors R

Bernini A Minardo and L Zeni 1 Introduction 2 Linear Backscattering Systems 3 Non Linear Backscattering Systems 4 Non Linear Forward Scattering Systems 5 Conclusions References 4 Lightwave Technologies for Interrogation Systems of Fiber Bragg Gratings Sensors D Donisi R Beccherelli and A d Alessandro 1 Introduction 2 Operating Principle of the Fiber Bragg Grating Sensor 3 FBG Interrogation Techniques 4 An Integrated Tunable Filter using Composite Holographic Grating 5 POLICRYPS Filterbased FBG Sensors Interrogation 6 Conclusions Acknowledgments References 5 Surface Plasmon Resonance Applications in Sensors and Biosensors R Rella and M G Manera 1 Introduction 2 SPR Theory 3 Optical Sensors based on Surface Plasmon Resonance 4 Application of SPR in Chemical Sensors and Biosensors 5 SPR Instrumentation From Traditional SPR Instrument to SPR Imaging 6 Future Capabilities References 6 Microresonators for Sensing Applications S Berneschi G Nunzi Conti S Pelli and S Soria 1 Introduction 2 Whispering Gallery Modes in a Microsphere 3 WGM Resonators Applications in Sensing Acknowledgments References 7 Photonic Crystals Towards a Novel Generation of Integrated Optical Devices for Chemical and Biological Detection A Ricciardi C Ciminelli M Pisco S Campopiano C E Campanella E Scivittaro M N Armenise A Cutolo and A Cusano 1 Introduction 2 Photonic Crystals 190 Fundamental Principles 3 Functional Photonic Band Gap Components and Devices 4 Photonic Crystals for Chemical and Biological Sensing 5 Photonic Crystal Fibers Sensors 6 Perspectives and Challenges References 8 Micromachining Technologies for Sensor Applications P M Sarro A Irace and P J French 1 Introduction 2 Bulk Micromachining 3 Surface Micromachining 4 Characterization of Thin Film Membranes 5 Conclusions and Outlook References 9 Spectroscopic Techniques for Sensors S Pelli A Chiasera M Ferrari and G C Righini 1 Introduction 2 Absorption Reflectance and Transmission Measurements 3 Luminescence Measurements 4 Raman and Brillouin Measurements 5 Conclusions References 10 Laser Doppler Vibrometry P Castellini G M Revel OCLC The Search Engine Revolution Maria Johnsen , Search engines have undergone a remarkable evolution since their inception during the early days of the internet From basic keyword searches to complex algorithms capable of predicting user queries search engines have become an essential aspect of our daily lives As a search engine programmer optimizer and SEO expert I have been fascinated by search engine algorithms since childhood My goal in writing this book is to assist and inspire scientists search engine enthusiasts and research experts in finding solutions to search engine algorithms to simplify users lives by answering their queries In 2017 I published a groundbreaking book titled The Future of Artificial Intelligence in Digital Marketing The next big technological break This book became study material for postgraduate students across the globe where I discussed AI search engines I wrote this book to increase awareness about the latest technology in digital marketing After publication some professors at universities in Canada and the United States purchased copies and began teaching it in various courses such as artificial intelligence digital marketing media arts informatics mathematics and business management So why did I write this book I created a video on YouTube about my time traveling through search engines which received a lot of positive feedback from my social media followers newsletter subscribers colleagues and friends A

mathematician friend of mine from London University suggested that I write a book about my ideas and here I am presenting it to you This book contains my extensive research personal reflections concerns and innovative ideas concerning search engines Embark on a journey akin to a time machine traversing from the early days of search engines to the present day and beyond Throughout the book I delve into the evolution of search engines since the early days of the internet as well as my predictions for the future of search engines Additionally I provide detailed algorithms documentations and case studies on utilizing the new generation of AI search engines and my new type of search engine Intended for research PhD students and academics this book serves as a continuation of my earlier work Artificial Intelligence in Digital Marketing A New Technological Break which was published in 2017

Fringe 2009 Wolfgang Osten, Malgorzata Kujawinska, 2010-04-28 21 years ago it was a joint idea with Hans Rottenkolber to organize a workshop dedicated to the discussion of the latest results in the automatic processing of fringe patterns This idea was promoted by the insight that automatic and high precision phase measurement techniques will play a key role in all future industrial and scientific applications of optical metrology A couple of months later more than 50 specialists from East and West met in East Berlin the capital of the former GDR to spend 3 days with the discussion of new principles of fringe processing In the stimulating atmosphere the idea was born to repeat the workshop and to organize the meeting in an olympic schedule And thus meanwhile 20 years have been passed and we have today Fringe number six However such a workshop takes place in a dynamic environment Therefore the main topics of the previous events were always adapted to the most interesting subjects of the new period In 1993 the workshop took place in Bremen and was dedicated to new principles of optical shape measurement setup calibration phase unwrapping and nondestructive testing while in 1997 new approaches in multi sensor metrology active measurement strategies and hybrid processing technologies played a central role 2001 the first meeting in the 21st century was focused to optical methods for microm measurements hybrid measurement technologies and new sensor solutions for industrial inspection

2050 - Tomorrow's Tourism Ian Yeoman, 2012-06-13 In 2050 it is predicted that 4.7bn or nearly 50% of the world's population will take an international holiday But can humankind meet that forecast given the issues of ageing populations peak oil the global financial crisis and climate change This book constructs scenarios from Shanghai to Edinburgh Seoul to California encompassing complex topics such as human trafficking conferences transport food tourism or technological innovation This is a blue skies thinking book about the future of tourism and a thought provoking analytical commentary

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 3D inspection 3D 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 3D imaging and 3D 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 Coded Optical Imaging Jinyang Liang,2024-03-19 This book provides a comprehensive survey of coded optical imaging Illustrated with 386 figures it takes readers from the fundamental concepts and theories to the latest research and applications in this field It can be used in graduate level courses in optics and photonics It can also benefit scientists and engineers in optical imaging computer graphics and other related disciplines This book starts from a brief history of coded optical imaging and key operations in its data acquisition and image reconstruction It then presents the latest progress in technological development and applications in the areas of biomedicine materials science industrial inspection optical physics imaging science information theory and more Chapters describe the most representative techniques exposing readers to key research themes including Optical signal encoding Image reconstruction techniques Compressed sensing Artificial intelligence Metasurface Structured light Lensless imaging Holography Tomography Light field imaging Ultrafast imaging Hyperspectral imaging Polarization imaging Super resolution imaging

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