

OPTICAL SCIENCES

Min Gu

**Advanced
Optical
Imaging
Theory**



Springer

Advanced Optical Imaging Theory

Virendra N. Mahajan



Advanced Optical Imaging Theory:

Advanced Optical Imaging Theory Min Gu, 2000 Optical microscopy and associated technologies have advanced rapidly along with laser technology. These techniques have stimulated further development of the optical imaging theory including 3 dimensional microscopy imaging theory, the theory of imaging with ultrashort pulsed beam illumination and the aberration theory for high numerical aperture objectives. This book introduces these new theories in modern optical microscopy providing comparisons with classical imaging as appropriate.

Advanced Optical Imaging Theory Min Gu, 2013-06-05 Optical microscopy and associated technologies advanced quickly after the introduction of the laser. The techniques have stimulated further development of optical imaging theory including 3 dimensional microscopy imaging theory in spatial and frequency domains, the theory of imaging with ultrashort pulse beams and aberration theory for high numerical aperture objectives. This book introduces these new theories in terms of modern optical microscopy. It consists of seven chapters including an introduction. The chapters are organized to minimize cross referencing. Comparisons with classical imaging theory are made when the new imaging theory is introduced. The book is intended for senior undergraduate students in courses on optoelectronics, optical engineering, photonics, biophotonics and applied physics after they have completed modern optics or a similar subject. It is also a reference for other scientists interested in the field.

High-Aperture Optical Microscopy Methods for Super-Resolution Deep Imaging and Quantitative Phase Imaging
Jeongmin Kim, 2016 Optical microscopy thanks to the noninvasive nature of its measurement takes a crucial role across science and engineering and is particularly important in biological and medical fields. To meet ever increasing needs on its capability for advanced scientific research, even more diverse microscopic imaging techniques and their upgraded versions have been intensively developed over the past two decades. However, advanced microscopy development faces major challenges including super resolution, beating the diffraction limit, imaging penetration depth, imaging speed, and label free imaging. This dissertation aims to study high numerical aperture (NA) imaging methods proposed to tackle these imaging challenges. The dissertation first details advanced optical imaging theory needed to analyze the proposed high NA imaging methods. Starting from the classical scalar theory of optical diffraction and partially coherent image formation, the rigorous vectorial theory that handles the vector nature of light, i.e. polarization, is introduced. New sign conventions for polarization ray tracing based on a generalized Jones matrix formalism are established to facilitate the vectorial light propagation with physically consistent outcomes. The first high NA microscopic imaging of interest is wide field oblique plane microscopy (OPM) for high speed deep imaging. It is a simple real time imaging technique recently developed to access any inclined cross section of a thick sample. Despite its experimental demonstration implemented by tilted remote focusing, the optical resolution of the method has not been fully understood. The anisotropic resolving power in high NA OPM is rigorously investigated and interpreted by deriving the vectorial point spread function (PSF) and vectorial optical transfer function (OTF).

Next OPM is combined with stochastic optical reconstruction microscopy STORM to achieve super resolution deep imaging The proposed method termed obliqueSTORM together with oblique lightsheet illumination paves the way for deeper penetration readily available in localization based super resolution microscopy The key performance metrics of obliqueSTORM quantitative super resolution and axial depth of field are studied obliqueSTORM could achieve sub 50 nm resolution with a penetration depth of tens of microns for biological samples The last part of the thesis covers the development of nonparaxial imaging theory of high NA differential phase contrast DPC microscopy for high resolution quantitative phase imaging The phase retrieval in conventional optical DPC microscopy relies on the paraxial transmission cross coefficient TCC model However this paraxial model becomes invalid in high NA DPC imaging Formulated here is a more advanced nonparaxial TCC model that considers the nonparaxial nature of light propagation apodization in high NA imaging systems and illumination source properties The derived nonparaxial TCC is numerically compared with the paraxial TCC to demonstrate its added features The practical forms of the TCC for high resolution phase reconstruction are discussed for two special types of objects weak objects and slowly varying phase objects The theoretical studies conducted here can help to bring such high NA microscopy techniques into the real world to solve imaging challenges

Journal of the Optical Society of America ,2005 **Advanced Optical Manufacturing and Testing Technology** Li Yang,2000 **Advanced Optical Imaging Technologies V** Xiao-Cong Yuan,P. Scott Carney,Kebin Shi,2023 Fourth International Conference on Photonics and Imaging in Biology and Medicine ,2006 **Optical Microlithography** ,2007 Advanced Optical Devices, Technologies, and Medical Applications Janis Spigulis,2003 **Chemical Abstracts** ,2002 **Optics Letters** ,2008 **Wave-optical Systems Engineering** ,2003 **Optics and Spectroscopy** ,2003 **Encyclopedia of Medical Devices and Instrumentation, Hydrocephalus, Tools for Diagnosis and Treatment of - Monoclonal Antibodies** John G. Webster,2006-04-07 The articles in The Encyclopedia of Medical Devices and Instrumentation focus on what is currently useful or is likely to be useful in future medicine They answer the question What are the branches of medicine and how does technology assist each of them Articles focus on the practice of medicine that is assisted by devices rather than including for example the use of drugs to treat disease The title is the only resource on the market dealing with the subject in encyclopedic detail Accessible to practitioners with a broad range of backgrounds from students to researchers and physicians Articles cover the latest developments such as nanotechnology fiber optics and signal processing

□□□□□□□□ ,1989 □□□□□□□□□□□□□□ ,1993 *Aberration Theory Made Simple* Virendra N. Mahajan,1991 This book provides a clear concise and consistent exposition of what aberrations are how they arise in optical imaging systems and how they affect the quality of images formed by them The emphasis of the book is on physical insight problem solving and numerical results and the text is intended for engineers and scientists who have a need and a desire for a deeper and better understanding of aberrations and their role in optical imaging and wave propagation Some knowledge of Gaussian optics and

an appreciation for aberrations would be useful but is not required

Handbook of Optical Systems, Volume 2 Herbert Gross, 2005-09-12 The state of the art full colored handbook gives a comprehensive introduction to the principles and the practice of calculation layout and understanding of optical systems and lens design Written by reputed industrial experts in the field this text introduces the user to the basic properties of optical systems aberration theory classification and characterization of systems advanced simulation models measuring of system quality and manufacturing issues In this Volume Volume 2 continues the introduction given in volume 1 with the more advanced texts about the foundations of image formation Emphasis is placed on an intuitive while theoretically exact presentation More than 400 color graphs and selected references on the end of each chapter support this undertaking From the contents 17 Wave equation 18 Diffraction 19 Interference and coherence 20 Imaging 21 Imaging with partial coherence 22 Three dimensional imaging 23 Polarization 24 Polarization and optical imaging A1 Mathematical appendix Other Volumes Volume 1 Fundamentals of Technical Optics Volume 3 Aberration Theory and Correction of Optical Systems Volume 4 Survey of Optical Instruments Volume 5 Advanced Physical Optics

Fundamentals of Photonics Bahaa E. A. Saleh, Malvin Carl Teich, 2007-03-09 Fundamentals of Photonics A complete thoroughly updated full color second edition Now in a new full color edition Fundamentals of Photonics Second Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a logical blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of photons and atoms and semiconductor optics Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography guided wave and fiber optics semiconductor sources and detectors electro optic and acousto optic devices nonlinear optical devices optical interconnects and switches and optical fiber communications Each of the twenty two chapters of the first edition has been thoroughly updated The Second Edition also features entirely new chapters on photonic crystal optics including multilayer and periodic media waveguides holey fibers and resonators and ultrafast optics including femtosecond optical pulses ultrafast nonlinear optics and optical solitons The chapters on optical interconnects and switches and optical fiber communications have been completely rewritten to accommodate current technology Each chapter contains summaries highlighted equations exercises problems and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest

Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues , 2005

The Enigmatic Realm of **Advanced Optical Imaging Theory**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Advanced Optical Imaging Theory** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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