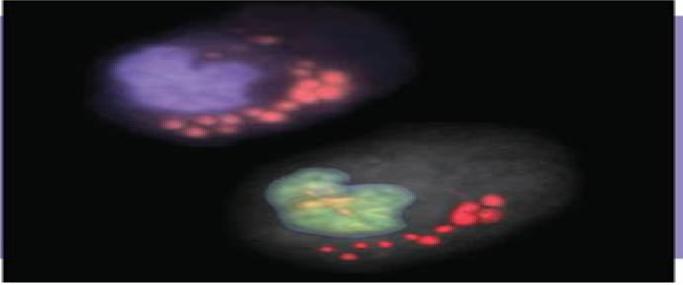
Advanced Biophotonics

Tissue Optical Sectioning



Edited by Ruikang K. Wang • Valery V. Tuchin



Advanced Biophotonics Tissue Optical Sectioning Series In Optics And Optoelectronics

Wengang (Wayne) Bi, Haochung (Henry) Kuo, Peicheng Ku, Bo Shen

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Advanced Biophotonics Taylor & Francis Group,2019-05-31 Despite a number of books on biophotonics imaging for medical diagnostics and therapy the field still lacks a comprehensive imaging book that describes state of the art biophotonics imaging approaches intensively developed in recent years Addressing this shortfall Advanced Biophotonics Tissue Optical Sectioning presents contemporary methods and applications of biophotonics imaging Gathering research otherwise scattered in numerous physical chemical biophysical and biomedical journals the book helps researchers bioengineers and medical doctors understand major recent bioimaging technologies and the underlying biophotonics science Well known international experts explore a variety of hot biomedical optics and biophotonics problems including the use of photoacoustic imaging to investigate the molecular and cellular processes in living systems The book also covers Monte Carlo modeling tissue optics and tissue optical clearing nonlinear optical microscopy various aspects of optical coherence tomography multimodal tomography adaptive optics and signal imaging With 58 color images this book represents a valuable contribution to the biomedical and biophotonics literature Designed for researchers and practitioners in biophotonics the book is also a useful resource for scientists in laser physics and technology fiber optics spectroscopy materials science biology and medicine as well as students studying biomedical physics and engineering biomedical optics and biophotonics

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algorithms and data analytics Includes examples of clinical studies with detailed descriptions of their implementation along with practical guidance Optical Microring Resonators Vien Van, 2016-12-19 a detailed cognizant account of numerous crucial aspects of optical microring resonators Amr S Helmy Professor of Electrical Computer Engineering University of Toronto an excellent choice for gaining an insight into the vast potential of microring resonators Jalil Ali Professor Laser Center ISI SIR University of Technology Malaysia a thorough treatment appeal s to a wide range of audiences L Jay Guo Professor of Electrical Engineering Computer Science The University of Michigan The field of microring resonator research has seen tremendous growth over the past decade with microring resonators now becoming a ubiquitous element in integrated photonics technology This book fills the need for a cohesive and comprehensive treatment of the subject given its importance and the proliferation of new research in the field The expert author has as an introductory guide for beginners as well as a reference source for more experienced researchers This book aims to fulfill this need by providing a concise and detailed treatment of the fundamental concepts and theories that underpin the various applications To appeal to as wide a readership as possible major areas of applications of microring resonators will also be covered in depth and Plasmonics Dr. Ching Eng (Jason) Png, Dr. Yuriy Akimov, 2017-08-21 This book provides a first integrated view of nanophotonics and plasmonics covering the use of dielectric semiconductor and metal nanostructures to manipulate light at the nanometer scale The presentation highlights similarities and advantages and shows the common underlying physics targets and methodologies used for different materials optically transparent materials for nanophotonics vs opaque materials for plasmonics Ultimately the goal is to provide a basis for developing a unified platform for both fields In addition to the fundamentals and detailed theoretical background the book showcases the main device applications Ching Eng Jason Png is Director of the Electronics and Photonics Department at the Institute of High Performance Computing Agency for Science Technology and Research Singapore Yuriy A Akimov is a scientist in the Electronics and Photonics Department at the Institute of High Performance Computing Agency for Science Technology and Research Singapore Singular Optics Gregory J. Gbur, 2016-11-17 This engagingly written text provides a useful pedagogical introduction to an extensive class of geometrical phenomena in the optics of polarization and phase including simple explanations of much of the underlying mathematics Michael Berry University of Bristol UK The author covers a vast number of topics in great detail with a unifying mathematical treatment It will be a useful reference for both beginners and experts Enrique Galvez Charles A Dana Professor of Physics and Astronomy Colgate University a firm and comprehensive grounding both for those looking to acquaint themselves with the field and those of us that need reminding of the things we thought we knew but hitherto did not understand an essential point of reference Miles Padgett Kelvin Chair of Natural Philosophy and Vice Principal Research University of Glasgow This book focuses on the various forms of wavefield singularities including optical vortices and polarization singularities as well as orbital angular momentum and associated applications It highlights how an

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expertly combines physical and mathematical concepts with important approaches for representing media through equivalent systems composed of simple components Optical Compressive Imaging Adrian Stern, 2016-11-17 This dedicated overview of optical compressive imaging addresses implementation aspects of the revolutionary theory of compressive sensing CS in the field of optical imaging and sensing It overviews the technological opportunities and challenges involved in optical design and implementation from basic theory to optical architectures and systems for compressive imaging in various spectral regimes spectral and hyperspectral imaging polarimetric sensing three dimensional imaging super resolution imaging lens free on chip microscopy and phase sensing and retrieval The reader will gain a complete introduction to theory experiment and practical use for reducing hardware shortening image scanning time and improving image resolution as well as other performance parameters Optics practitioners and optical system designers electrical and optical engineers mathematicians and signal processing professionals will all find the book a unique trove of information and practical quidance Handbook of Solid-State Lighting and LEDs Zhe Chuan Feng, 2017-06-12 This handbook addresses the development of energy efficient environmentally friendly solid state light sources in particular semiconductor light emitting diodes LEDs and other solid state lighting devices It reflects the vast growth of this field and impacts in diverse industries from lighting to communications biotechnology imaging and medicine The chapters include coverage of nanoscale processing fabrication of LEDs light diodes photodetectors and nanodevices characterization techniques application and recent advances Readers will obtain an understanding of the key properties of solid state lighting and LED devices an overview of current technologies and appreciation for the challenges remaining The handbook will be useful to material growers and evaluators device design and processing engineers newcomers students and professionals in the field

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