

Wolfgang Drexler  
James G. Fujimoto  
*Editors*

BIOLOGICAL AND MEDICAL PHYSICS, BIOMEDICAL ENGINEERING

# Optical Coherence Tomography

Technology and Applications

 Springer

# Optical Coherence Tomography Technology And Applications Biological And Medical Physics Biomedical Engineering

**Laura M. Roa Romero**

A decorative red circular graphic with a gradient, partially obscured by the light blue bar, located to the right of the author's name.

## **Optical Coherence Tomography Technology And Applications Biological And Medical Physics Biomedical Engineering:**

Optical Coherence Tomography Wolfgang Drexler, James G. Fujimoto, 2008-12-10 Optical coherence tomography OCT is the optical analog of ultrasound imaging and is emerging as a powerful imaging technique that enables non invasive in vivo high resolution cross sectional imaging in biological tissue A new generation OCT technology has now been developed representing a quantum leap in resolution and speed achieving in vivo optical biopsy i e the visualization of tissue architectural morphology in situ and in real time Functional extensions of OCT technology enable non invasive depth resolved functional assessment and imaging of tissue These new techniques should not only improve image contrast but should also enable the differentiation of pathologies via metabolic properties or functional state The book introduces OCT technology and applications not only from an optical and technological viewpoint but also from biomedical and clinical perspectives The chapters are written by leading international research groups in a style comprehensible to a broad audience It will be of interest not only to physicists scientists and engineers but also to biomedical and clinical researchers from different medical specialties

**Biomedical Technology and Devices, Second Edition** James E. Moore Jr, Duncan J. Maitland, 2013-06-25 Biomedical Technology and Devices Second Edition focuses on the equipment devices and techniques used in modern medicine to diagnose treat and monitor human illnesses Gathering together and compiling the latest information available on medical technology this revised work adds ten new chapters It starts with the basics introducing the history of the thermometer and measuring body temperature before moving on to a medley of devices that are far more complex This book explores diverse technological functions and procedures including signal processing auditory systems magnetic resonance imaging ultrasonic and emission imaging image guided thermal therapy medical robotics shape memory alloys biophotonics and tissue engineering Each chapter offers a description of the technique its technical considerations and its use according to its applications and relevant body systems It can be used as a professional resource as well as a textbook for undergraduate and graduate students

*Handbook of Biophotonics* Jürgen Popp, Valery V. Tuchin, Arthur Chiou, Stefan H. Heinemann, 2011-11-30 This new handbook covers the world of biophotonics not only geographically with the editors coming from different continents but also in terms of content since the authors come from the whole spectrum of biophotonic basic and applied research Designed to set the standard for the scientific community these three volumes break new ground by providing readers with the physics basics as well as the biological and medical background together with detailed reports on recent technical advances The Handbook also adopts an application related approach starting with the application and then citing the various tools to solve the scientific task making it of particular value to medical doctors Divided into several sections the first part offers introductory chapters on the different fields of research with subsequent parts focusing on the applications and techniques in various fields of industry and research The result is a handy source for scientists seeking the

basics in a condensed form and equally a reference for quickly gathering the knowledge from neighboring disciplines Absolutely invaluable for biophotonic scientists in their daily work      **Lasers for Medical Applications** Helena Jelínková, 2013-09-30 Lasers have a wide and growing range of applications in medicine Lasers for Medical Applications summarises the wealth of recent research on the principles technologies and application of lasers in diagnostics therapy and surgery Part one gives an overview of the use of lasers in medicine key principles of lasers and radiation interactions with tissue To understand the wide diversity and therefore the large possible choice of these devices for a specific diagnosis or treatment the respective types of the laser solid state gas dye and semiconductor are reviewed in part two Part three describes diagnostic laser methods for example optical coherence tomography spectroscopy optical biopsy and time resolved fluorescence polarization spectroscopy Those methods help doctors to refine the scope of involvement of the particular body part or for example to specify the extent of a tumor Part four concentrates on the therapeutic applications of laser radiation in particular branches of medicine including ophthalmology dermatology cardiology urology gynecology otorhinolaryngology ORL neurology dentistry orthopaedic surgery and cancer therapy as well as laser coatings of implants The final chapter includes the safety precautions with which the staff working with laser instruments must be familiar With its distinguished editor and international team of contributors this important book summarizes international achievements in the field of laser applications in medicine in the past 50 years It provides a valuable contribution to laser medicine by outstanding experts in medicine and engineering Describes the interaction of laser light with tissue Reviews every type of laser used in medicine solid state gas dye and semiconductor Describes the use of lasers for diagnostics      *Handbook of Full-Field Optical Coherence Microscopy* Arnaud Dubois, 2016-10-14 Full field optical coherence microscopy FF OCM is an imaging technique that provides cross sectional views of the subsurface microstructure of semitransparent objects The technology is based on low coherence interference microscopy which uses an area camera for en face imaging of the full field illuminated object FF OCM benefits from the lateral imaging resolution of optical microscopy along with the capacity of optical axial sectioning at micrometer scale resolution The technique can be employed in diverse applications in particular for non invasive examination of biological tissues This handbook is the first to be entirely devoted to FF OCM It is organized into four parts with a total of 21 chapters written by recognized experts and major contributors to the field After a general introduction to FF OCM the fundamental characteristics of the technology are analyzed and discussed theoretically The main technological developments of FF OCM for improving the image acquisition speed and for endoscopic imaging are presented in part II Extensions of FF OCM for image contrast enhancement or functional imaging are reported in part III The last part of the book provides an overview of possible applications of FF OCM in medicine biology and materials science A comprehensive compilation of self contained chapters written by leading experts this handbook is a definitive guide to the theoretical analyses technological developments and applications of FF OCM Using the rich information the book is replete with a wide range of readers from

scientists and physicists to engineers as well as clinicians and biomedical researchers can get a handle on the latest major advances in FF OCM

**Microbial Biotechnology** Pratyosh Shukla, 2016-12-01 Microbial Biotechnology An Interdisciplinary Approach covers all aspects of microbial biotechnology whilst bringing the field of functional foods and microbial bioremediation to the fore Recounting the interdisciplinary scope of biotechnology and its discoveries this text presents innovative ideas in the field of emerging biotechnology providing the scientific community with a much needed new resource Acting as an important means of information for researchers working in interdisciplinary areas of research this text Envisages the recent ideas of novel findings in microbiology Provides insight into the various interdisciplinary research avenues Uniquely covers a diverse range of topics Presents groundbreaking new findings in key areas of modern biotechnology Enhanced and straight forward descriptions cater to the needs of researchers working in areas of bacterial exopolysaccharides microalgal proteomics applications of Microbial L asparaginases novel aspects of bioremediation Probiotics and their impact on society and microbial community analysis in waste water treatment techniques It will also prove crucial reading for senior undergraduate and graduate students and professionals working in areas of modern biotechnology

**Computational Retinal Image Analysis** Emanuele Trucco, Tom MacGillivray, Yanwu Xu, 2019-11-19 Computational Retinal Image Analysis Tools Applications and Perspectives gives an overview of contemporary retinal image analysis RIA in the context of healthcare informatics and artificial intelligence Specifically it provides a history of the field the clinical motivation for RIA technical foundations image acquisition modalities instruments computational techniques for essential operations lesion detection e g optic disc in glaucoma microaneurysms in diabetes and validation as well as insights into current investigations drawing from artificial intelligence and big data This comprehensive reference is ideal for researchers and graduate students in retinal image analysis computational ophthalmology artificial intelligence biomedical engineering health informatics and more Provides a unique well structured and integrated overview of retinal image analysis Gives insights into future areas such as large scale screening programs precision medicine and computer assisted eye care Includes plans and aspirations of companies and professional bodies

Optical Coherence Tomography Rui Bernardes, José Cunha-Vaz, 2012-05-08 Optical Coherence Tomography represents the ultimate noninvasive ocular imaging technique although being in the field for over two decades This book encompasses both medical and technical developments and recent achievements Here the authors cover the field of application from the anterior to the posterior ocular segments Part I and present a comprehensive review on the development of OCT Important developments towards clinical applications are covered in Part II ranging from the adaptive optics to the integration on a slit lamp and passing through new structural and functional information extraction from OCT data The book is intended to be informative coherent and comprehensive for both the medical and technical communities and aims at easing the communication between the two fields and bridging the gap between the two scientific communities

Digital Eye Care and Teleophthalmology Kanagasingam Yogesan, Leonard

Goldschmidt,Jorge Cuadros,Giselle Ricur,2023-06-19 This book describes digital ophthalmology and telemedicine applications for both front of the eye and retina It includes technical issues digital imaging what clinical parameters to use which technologies are suitable and collective experiences of practitioners in different parts of the world practicing a wide range of digital eye care delivery The main purpose of this book is to provide adequate information to clinicians and other health professionals who are involved in eye care delivery to assess how digital health in ophthalmology might be applied to their working practice how digital screenings are performed and to learn about virtual image reading Many of the chapters are also helpful to health service managers imaging specialists and information technology staff Digital Eye Care and Teleophthalmology A Practical Guide to Applications examines digital eye care to provide state of art ophthalmic services It is an essential resource for professionals involved in eye care seeking to develop or improve their digital applications in daily practice

**Sub-Terahertz Sensing Technology for Biomedical Applications** Shibani Kishen Koul,Priyansha Kaurav,2022-08-20 This book offers the readers an opportunity to acquire the concepts of artificial intelligence AI enabled sub THz systems for novel applications in the biomedical field The readers will also be inspired to contextualize these applications for solving real life problems such as non invasive glucose monitoring systems cancer detection and dental imaging The introductory section of this book focuses on existing technologies for radio frequency and infrared sensing in biomedical applications and their limited use in sensing applications as well as the advantages of using THz technology in this context This is followed by a detailed comparative analysis of THz electronics technology and other conventional electro optic THz setups highlighting the superior efficiency affordability and portability of electronics based THz systems The book also discusses electronic sub THz measurement systems for different biomedical applications The chapters elucidate two major applications where sub THz provides an edge over existing state of the art techniques used for non invasive measurement of blood glucose levels and intraoperative assessment of tumor margins There is a detailed articulation of an application of leveraging machine learning for measurement systems for non invasive glucose concentration measurement This helps the reader relate to the output in a more user friendly format and understand the possible use cases in a more lucid manner The book is intended to help the reader learn how to build tissue phantoms and characterize them at sub THz frequencies in order to test the measurement systems Towards the end of the book a brief introduction to system automation for biomedical imaging is provided as well for quick analysis of the data The book will empower the reader to understand and appreciate the immense possibilities of using electronic THz systems in the biomedical field creating gateways for fueling further research in this area

Biomedical Optical Imaging Technologies Rongguang Liang,2012-09-21 This book provides an introduction to design of biomedical optical imaging technologies and their applications The main topics include fluorescence imaging confocal imaging micro endoscope polarization imaging hyperspectral imaging OCT imaging multimodal imaging and spectroscopic systems Each chapter is written by the world leaders of the respective fields and will

cover principles and limitations of optical imaging technology system design and practical implementation for one or two specific applications including design guidelines system configuration optical design component requirements and selection system optimization and design examples recent advances and applications in biomedical researches and clinical imaging This book serves as a reference for students and researchers in optics and biomedical engineering *Development and Application of Optical Coherence Tomography (OCT)* Michael Pircher, This book is a printed edition of the Special Issue Development and Application of Optical Coherence Tomography OCT that was published in Applied Sciences **New Technologies in Dermatological Science and Practice** Lawrence S. Chan, M. Peter Marinkovich, 2021-08-01 While science and technology have been moving at speed in the last decade and major investments have been placed in Artificial Intelligence blockchain technology 3D printing and gene editing medical practice including cutaneous medicine otherwise known as Dermatology is only just starting to follow these technological advances This book is a timely intellectual investment for cutaneous medicine addressing these particularly needed areas It is written for medical educators dermatology residents practicing dermatologists and medical researchers in the area of skin diseases to alert them all to medical advances and up and coming technology and in the hope it will inspire further novel methodology for the future of cutaneous medicine in diagnosis and therapy **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 *XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013* Laura M. Roa Romero, 2013-10-01 The general theme of MEDICON 2013 is Research and Development of Technology for Sustainable Healthcare This decade is being characterized by the appearance and use of emergent technologies under development This situation has produced a tremendous impact on Medicine and Biology from which it is expected an unparalleled evolution in these disciplines towards novel concept and practices The consequence will be a

significant improvement in health care and well fare i e the shift from a reactive medicine to a preventive medicine This shift implies that the citizen will play an important role in the healthcare delivery process what requires a comprehensive and personalized assistance In this context society will meet emerging media incorporated to all objects capable of providing a seamless adaptive anticipatory unobtrusive and pervasive assistance The challenge will be to remove current barriers related to the lack of knowledge required to produce new opportunities for all the society while new paradigms are created for this inclusive society to be socially and economically sustainable and respectful with the environment In this way these proceedings focus on the convergence of biomedical engineering topics ranging from formalized theory through experimental science and technological development to practical clinical applications

**Clinical En Face OCT Atlas** Bruno Lumbroso, David Huang, Andre Romano, Marco Rispoli, Gabriel Coscas, 2013-02-28 This atlas examines developments in clinical en face imaging comparing methods and devices and evaluating the most clinically efficient techniques Divided into three sections the first part introduces the principles of OCT optical coherence tomography and the anatomy and histology of the retina and surrounding area The second section discusses en face OCT in diagnosing and treating different ocular diseases and disorders More than 1000 pathological images obtained using different OCT devices are included The final part describes future developments in the technological and scientific aspects of OCT and their clinical applications Key points Evaluates clinical en face OCT techniques for numerous ocular diseases and disorders Each case includes pathological images from different devices for comparison Internationally recognised European and US author and editor team

**Holoscopy** Dierck Hillmann, 2014-07-08 Holoscopy is a new tomographic imaging modality that combines techniques of digital holography with Fourier domain optical coherence tomography FD OCT Dierck Hillmann gives a theoretical introduction to the mathematics and physics of holoscopy and develops an efficient numerical reconstruction procedure Compared to FD OCT holoscopy provides unique advantages by enabling tomographic imaging without a limited depth of focus but results in an increased numerical cost for reconstruction In further chapters the author introduces techniques for FD OCT that are relevant to holoscopy as well He demonstrates and compares numerical reconstruction methods for FD OCT and shows how motion and dispersion artifacts in FD OCT can be numerically compensated

**XV Mediterranean Conference on Medical and Biological Engineering and Computing – MEDICON 2019** Jorge Henriques, Nuno Neves, Paulo de Carvalho, 2019-09-24 This book gathers the proceedings of MEDICON 2019 the XV Mediterranean Conference on Medical and Biological Engineering and Computing which was held in September 26 28 2019 in Coimbra Portugal A special emphasis has been given to practical findings techniques and methods aimed at fostering an effective patient empowerment i e to position the patient at the heart of the health system and encourages them to be actively involved in managing their own healthcare needs The book reports on research and development in electrical engineering computing data science and instrumentation and on many topics at the interface between those disciplines It provides academics and professionals with



extensive knowledge on cutting edge techniques and tools for detection prevention treatment and management of diseases A special emphasis is given to effective advances as well as new directions and challenges towards improving healthcare through holistic patient empowerment

**Optics and Ultrasound in Biomedicine: Sensing, Imaging and Therapy** Chao Tian, Jie Tian, Jun Xia, Xueding Wang, Zhihua Ding, Zhaoyu Li, 2021-07-22

**Lasers in the Conservation of Artworks VIII** Roxana Radvan, John F. Asmus, Marta Castillejo, Paraskevi Pouli, Austin Nevin, 2010-12-01

Laser techniques offer possibilities for the examination and conservation of artwork and for the prevention of cultural heritage This collection of peer reviewed papers from the 8th International Conference on Lasers in the Conservation of Artworks Sibiu Romania September 21 25 2009 addresses various aspects of cultural heritage preservation laser induced phenomenas laser investigations and recent laboratory studies and onsite applications The main topics include Innovative approaches in laser cleaning researches and instrumentation development Laser investigation and diagnostics methods Monitoring imaging and documentation of artwork Lasers in the Conservation of Artworks VIII will appeal to laser scientists conservation scientists scientists in the field of optoelectronics chemistry IT and biology conservators restorers architects art historians archaeologists and decision makers in the field of conservation and restoration of artworks

## Adopting the Track of Expression: An Emotional Symphony within **Optical Coherence Tomography Technology And Applications Biological And Medical Physics Biomedical Engineering**

In a world taken by screens and the ceaseless chatter of instantaneous communication, the melodic splendor and mental symphony developed by the written term frequently disappear into the background, eclipsed by the persistent sound and disruptions that permeate our lives. However, nestled within the pages of **Optical Coherence Tomography Technology And Applications Biological And Medical Physics Biomedical Engineering** a stunning literary prize overflowing with natural thoughts, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, that fascinating masterpiece conducts visitors on a psychological trip, well unraveling the concealed tunes and profound influence resonating within each carefully crafted phrase. Within the depths of this moving assessment, we shall discover the book is main harmonies, analyze their enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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