

SECOND EDITION

Biomedical Photonics Handbook

III Volume Set

Edited by

Tuan Vo-Dinh



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Biomedical Photonics Handbook 3 Volume Set Second Edition

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Mueller Matrix Microscopy for the Expert Assessment of Acute Myocardium Ischemia Victor Bachinsky, Oleh Ya Vanchulyak, Alexander G. Ushenko, Yuri A. Ushenko, Alexander V. Dubolazov, Alexander Bykov, Benjamin Hogan, Igor Meglinski, 2021-04-13 This book provides an essential overview of the basic principles of imaging modalities accompanied by examples of their applications in modern clinical and associated pre clinical studies The monograph is based on the original results of investigation of the efficiency use of laser light and Mueller matrix polarimetry approach for assessment of myocardial tissues towards confirmation the cause of death A morphological analysis of necrotic changes in the myocardial tissue of patients that died due to heart attack coronary heart disease and acute coronary insufficiency was carried out and the data and histological sections of the myocardium inspected utilizing Mueller matrix mapping of tissue samples with polarized light A unified optical model of polycrystalline structure of the myocardium is proposed and the principles and regulations of Mueller matrix description of its polarization manifestations are explored and developed The book also provides a statistical and scale selective wavelet analysis of polarization and Mueller matrix maps Finally the key forensic medical criteria for the differential diagnosis of the cause of death due to necrotic and pathological changes in the morphological structure of the myocardium have been established

Optical Anisotropy of Biological Polycrystalline Networks Lilia Trifonyuk, Iryna V. Soltys, Alexander G. Ushenko, Yuri A. Ushenko, Alexander V. Dubolazov, Jun Zheng, 2023-05-29 This book highlights the analysis of new azimuth independent methods of Stokes polarimetry and Mueller matrix reconstruction of distributions of optical anisotropy parameters using spatial frequency filtering of manifestations of phase linear and circular birefringence and amplitude linear and circular dichroism anisotropy for diagnosing changes in the orientational phase structure of fibrillar networks of histological sections of biological tissues and polycrystalline films of biological fluids

Phase Mapping of Human Biological Tissues Zhengbin Hu, V. T. Bachinsky, O. Y. Vanchulyak, Iryna V. Soltys, Yu. A. Ushenko, A. G. Ushenko, Igor Meglinski, 2023-06-20 This book presents numerical computer aided smart methods as part of a comprehensive statistical correlation and fractal analysis of laser polarimetry data It highlights relationships between polarization azimuth distributions polarization ellipticities Stokes vector parameters Mueller matrix elements parameters of laser images of biological tissues of a human corpse in different spectral ranges and temporal dynamics of their postmortem morphological changes The book discusses the effectiveness of correlation analysis of two dimensional distributions of polarization inhomogeneous images of histological sections of the main types of biological tissues in determining the time of death It also discusses the development of basic principles of phase measurements phasometry of microscopic images of biological tissues to determine the age of death and the time of hematoma formation Also presented in the book are possibilities of complex laser spectral photopolarimetry images of histological sections of biological tissues of human corpse in different spectral regions with the simultaneous development and substantiation of a set of statistical and correlational criteria for objective determination of the time of death

Advanced Photonics Methods for Biomedical

Applications Edik Rafailov, Tatjana Gric, 2023-07-31 Advanced photonics methods for biomedical applications give researchers in universities and industries and clinicians an overview of the novel tools for cancer diagnostics and treatment. This book provides researchers and professionals in the area of biomedical photonics with a toolbox of novel methodologies for biomedical applications including health diagnostics, cancer detection and treatment. It covers the theory, modeling and design of each method alongside their applications, fabrication, characterization and measurements in clinical practice. A wide scope of concepts concerning innovative science and technologies of medicine will be covered, providing the readers with the latest research developments and technologies. It will also be a valuable resource for students and early career researchers alongside those involved in the design of the novel photonics based techniques for health diagnostics and cancer detection and treatment. Key features: Discusses novel methods of cancer diagnostics and cancer treatment. Details non and minimally invasive photonics techniques. Explores the applications of machine learning and artificial intelligence to these novel techniques. Book of abstracts PHOTONICA2017 The Sixth International School and Conference on Photonics & COST actions: MP1406 and MP1402 & H2020-MSCA-RISE-2015 CARDIALLY workshop Marina Lekić, Aleksandar Krmpot, 2017-08-28

Biomedical Photonics for Diabetes Research Andrey Dunaev, Valery Tuchin, 2022-10-31 In 2021 over 537 million people worldwide were diagnosed with diabetes according to the International Diabetes Federation and so the diagnosis, care and treatment of patients with diabetes mellitus have become one of the highest healthcare priorities. Biomedical photonics methods have been found to significantly improve and assist in the diagnosis of various disorders and complications arising from diabetes. These methods have also been widely used in various studies in the field of diabetes including in the assessment of biochemical characteristics, metabolic processes and microcirculation that are impaired in this disease. This book provides an introduction to methods of biomedical photonics. The chapters written by world leading experts cover a wide range of issues including the theoretical basis of different biophotonics methods and practical issues concerning the conduction of experimental studies to diagnose disorders associated with diabetes. It provides a comprehensive summary of the recent advances in biomedical optics and photonics in the study of diabetes and related complications. This book will be of interest to biomedical physicists and researchers in addition to practicing doctors and endocrinologists looking to explore new instrumental methods for monitoring the effectiveness of patient treatment. Features: The first collective book combining accumulated knowledge and experience in the field of diabetes research using biophotonics. Contributions from leading experts in the field. Combines the theoretical base of the described methods and approaches as well as providing valuable practical guidance and the latest research from experimental studies.

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