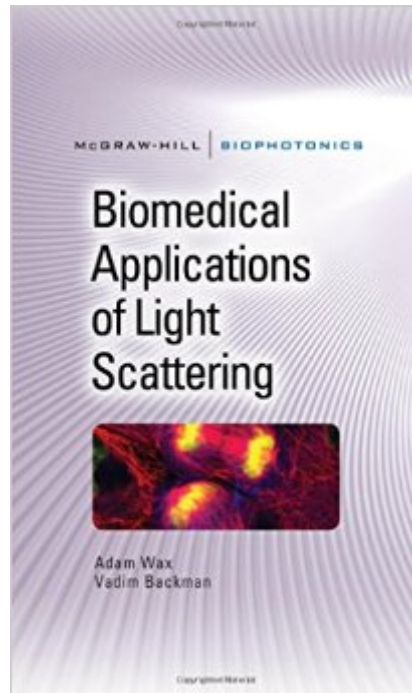


The book was found

Biomedical Applications Of Light Scattering (McGraw-Hill Biophotonics)



Synopsis

Essential light scattering theories, techniques, and practicesExtend tissue characterization and analysis capabilities using cutting-edge biophotonics tools and technologies. This comprehensive resource details the principles, devices, and procedures necessary to fully employ light scattering in clinical and diagnostic applications.Â Biomedical Applications of Light Scattering explains how to work with biological scatterers and scattering codes, accurately model tissues and cells, build time-domain simulations, and resolve inverse scattering issues. Noninvasive biopsy procedures, precancer and disease screening methods, and fiber optic probe design techniques are also covered in this detailed volume. Analyze light scattering spectra from complex and continuous mediaBuild high-resolution cellular models using FDTD and PSTD methodsWork with confocal microscopic imaging and diffuse optical tomographyMeasure blood flow using laser Doppler, LSCI, and photon correlation Perform noninvasive optical biopsies using elastic scattering techniques Assess bulk tissue properties using differential pathlength spectroscopyDetect precancerous lesions using angle-resolved low-coherence interferometryRisk-stratify patients for colonoscopies using enhanced backscattering methodsÂ

Book Information

Series: McGraw-Hill Biophotonics

Hardcover: 384 pages

Publisher: McGraw-Hill Education; 1 edition (October 13, 2009)

Language: English

ISBN-10: 0071598804

ISBN-13: 978-0071598804

Product Dimensions: 6.4 x 1.2 x 9.3 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,100,850 in Books (See Top 100 in Books) #146 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Optoelectronics #343 inÂ Books > Textbooks > Medicine & Health Sciences > Medicine > Biotechnology #909 inÂ Books > Science & Math > Physics > Optics

[Download to continue reading...](#)

Biomedical Applications of Light Scattering (McGraw-Hill Biophotonics) Optofluidics: Fundamentals, Devices, and Applications (McGraw-Hill Biophotonics) McGraw-Hill's National Electrical Safety

Code 2017 Handbook (Mcgraw Hill's National Electrical Safety Code Handbook) McGraw-Hill's 500 ACT English and Reading Questions to Know by Test Day (Mcgraw Hill's 500 Questions to Know By Test Day) McGraw-Hill Nurses Drug Handbook, Seventh Edition (McGraw-Hill's Nurses Drug Handbook) McGraw-Hill's Conversational American English: The Illustrated Guide to Everyday Expressions of American English (McGraw-Hill ESL References) McGraw-Hill's I.V. Drug Handbook (McGraw-Hill Handbooks) Biomedical Ethics for Engineers: Ethics and Decision Making in Biomedical and Biosystem Engineering (Biomedical Engineering Series) Polymers and Neutron Scattering (Oxford Series on Neutron Scattering in Condensed Matter) Quantitative Biomedical Optics: Theory, Methods, and Applications (Cambridge Texts in Biomedical Engineering) Dopamine Receptor Sub-Types: From Basic Sciences to Clinical Applications (Biomedical and Health Research, Vol. 19) (Biomedical and Health Research, V. 19) Dynamic Light Scattering: Applications of Photon Correlation Spectroscopy Biomedical Engineering and Design Handbook, Volume 1: Volume I: Biomedical Engineering Fundamentals Medical Aspects of Proteases and Proteases Inhibitors (Biomedical and Health Research, Vol. 15) (Biomedical and Health Research, V. 15) Private Branch Exchange Systems and Applications (Mcgraw-Hill Series on Computer Communications) Molecular Light Scattering and Optical Activity Molecular Light Scattering and Optical Activity Neutron, X-rays and Light. Scattering Methods Applied to Soft Condensed Matter (North-Holland Delta Series) Light Scattering by Small Particles (Dover Books on Physics) Absorption and Scattering of Light by Small Particles

[Dmca](#)