



Biomedical Applications of Light Scattering (Hardback)

By Adam Wax, Vadim Backman

McGraw-Hill Education - Europe, United States, 2009. Hardback. Condition: New. Language: English . Brand New Book. 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. 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 methods.



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