



Handbook of Coherent-Domain Optical Methods: Biomedical Diagnostics, Environmental Monitoring, and Materials Science

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This Handbook provides comprehensive coverage of laser and coherent-domain methods as applied to biomedicine, environmental monitoring, and materials science. Worldwide leaders in these fields describe the fundamentals of light interaction with random media and present an overview of basic research. The latest results on coherent and polarization properties of light scattered by random media, including tissues and blood, speckles formation in multiple scattering media, and other non-destructive interactions of coherent light with rough surfaces and tissues, allow the reader to understand the principles and applications of coherent diagnostic techniques. The expanded second edition has been thoroughly updated with particular emphasis on novel coherent-domain techniques and their applications in medicine and environmental science. Volume 1 describes state-of-the-art methods of coherent and polarization optical imaging, tomography and spectroscopy; diffusion wave spectroscopy; elastic, quasi-elastic and inelastic light scattering spectroscopy and imaging; digital holographic microscopy, the Fourier transform light scattering method, and coherent diffractive imaging; wavefront sensing, aberration measurement and adaptive optics for ophthalmology; and laser remote sensing. Volume 2 presents the new and growing field of coherent optics in optical coherence tomography (OCT). Various applications of OCT and confocal microscopy, including biomedical endoscopy, are discussed. A special section covers Mueller matrix polarimetry, nonlinear laser fluorescence spectroscopy, and triplet-triplet annihilation assisted upconversion as optical tools for probing the physical parameters of materials and natural organic compounds.

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