

Biomedical Optics: Principles and Imaging

Lihong V. Wang, Hsin-i Wu

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This entry-level textbook, covering the area of tissue optics, is based on the lecture notes for a graduate course (Bio-optical Imaging) that has been taught six times by the authors at Texas A&M University. After the fundamentals of photon transport in biological tissues are established, various optical imaging techniques for biological tissues are covered. The imaging modalities include ballistic imaging, quasi-ballistic imaging (optical coherence tomography), diffusion imaging, and ultrasound-aided hybrid imaging. The basic physics and engineering of each imaging technique are emphasized.

A solutions manual is available for instructors; to obtain a copy please email the editorial department at ialine@wiley.com.



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