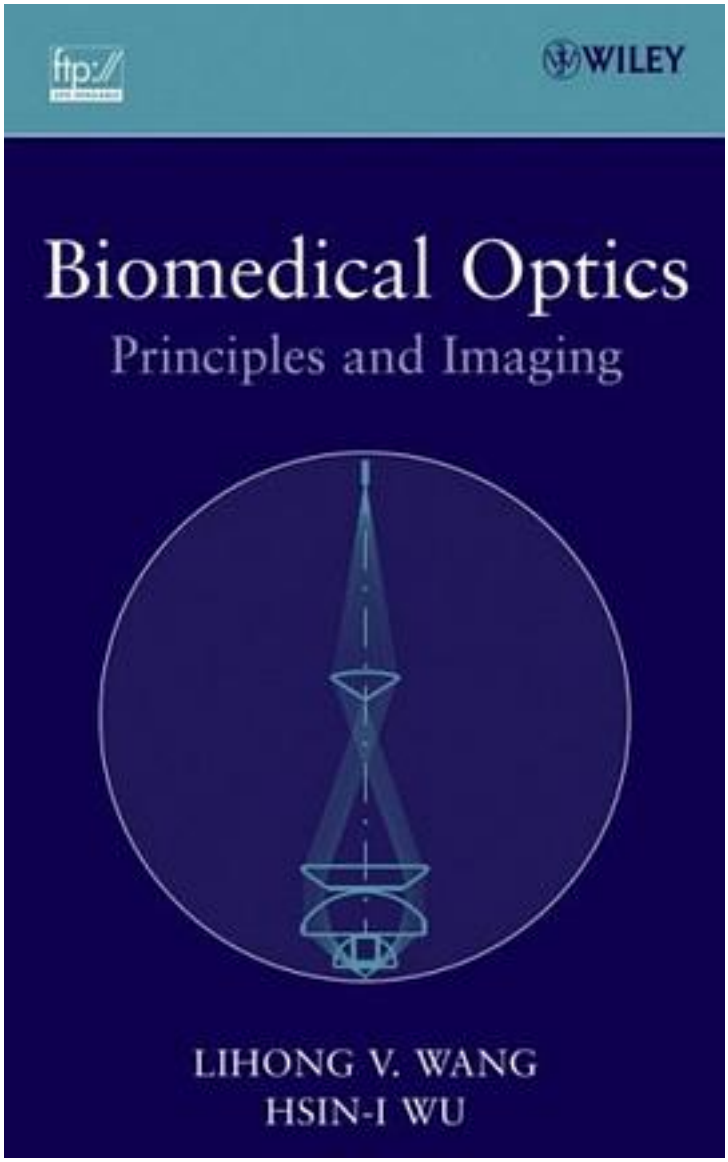
Biomedical Optics



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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.

作者介绍:

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标签

物理

生物医学工程

生物医学光学

生物医学光子学

WangLiHong

评论

生物医学光子学必读书目，基本概念、基本理论、基本技术都覆盖了，作者是国际生物医学光子学学会主席

感觉大部分地方推导的很详细，但是有的地方却跳跃很大。

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书评

Dr. Lihong V. Wang的经典作品。
理论实践都擅长的牛人你没有见过？那就读这本书，看Wang是如何建立他的biomedical optics帝国。

基本概念、基本理论、基本技术都覆盖了，作者是国际生物医学光学学会主席。
第一章Intro 第二章是瑞利理论和米氏理论
第三章是作者的成名作MCML的详细介绍，当然该领域MC方法很久以前就有人一直在使用，但是自从Wang和Jacques发布了MCML源代码后就成了标准程序 第四章将无限细...

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