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Physics : Biological and Medical Physics, Biophysics

Liang, Rongguang (Ed.)

Biomedical Optical Imaging Technologies

Design and Applications

- Summarizes the current state-of-the-art in biomedical optical imaging technologies
- Gives detailed instructions on the design of biomedical optical imaging technologies and their applications, including design guidelines, system configuration, optical design, component requirements and selection, system optimization, and design examples, clinical imaging
- Many examples and practical application results
- Useful reference to researchers and graduate students alike

This book provides an introduction to design of biomedical optical imaging technologies and their applications. The main topics include: fluorescence imaging, confocal imaging, micro-endoscope, polarization imaging, hyperspectral imaging, OCT imaging, multimodal imaging and spectroscopic systems. Each chapter is written by the world leaders of the respective fields, and will cover: principles and limitations of optical imaging technology, system design and practical implementation for one or two specific applications, including design guidelines, system configuration, optical design, component requirements and selection, system optimization and design examples, recent advances and applications in biomedical researches and clinical imaging. This book serves as a reference for students and researchers in optics and biomedical engineering.

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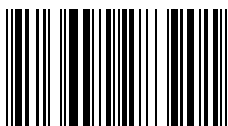
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