



## Handbook of Biomedical Optics

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Biomedical optics holds tremendous promise to deliver effective, safe, non- or minimally invasive diagnostics and targeted, customizable therapeutics. **Handbook of Biomedical Optics** provides an in-depth treatment of the field, including coverage of applications for biomedical research, diagnosis, and therapy. It introduces the theory and fundamentals of each subject, ensuring accessibility to a wide multidisciplinary readership. It also offers a view of the state of the art and discusses advantages and disadvantages of various techniques.

Organized into six sections, this handbook:

- Contains introductory material on optics and the optical properties of tissue
- Describes the various forms of spectroscopy and its applications in medicine and biology, including methods that exploit intrinsic absorption and scattering contrast; dynamic contrast; and fluorescence and Raman contrast mechanisms
- Provides extensive coverage of tomography from the microscopic (optical coherence tomography) to the macroscopic (diffuse optical tomography) to photoacoustic tomography
- Discusses cutting-edge translations to biomedical applications in both basic sciences and clinical studies
- Details molecular imaging and molecular probe development
- Highlights the use of light in disease and injury treatment

The breadth and depth of multidisciplinary knowledge in biomedical optics has been expanding continuously and exponentially, thus underscoring the lack of a single source to serve as a reference and teaching tool for scientists in related fields. **Handbook of Biomedical Optics** addresses this need, offering the most complete up-to-date overview of the field for researchers and students alike.

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