



# Photoacoustic Tomography

*Huabei Jiang*

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## **Photoacoustic Tomography** Huabei Jiang

The concept of photoacoustic tomography (PAT) emerged in the mid-1990s, and the field of PAT is now rapidly moving forward. Presenting the research of a well-respected pioneer and leading expert, **Photoacoustic Tomography** is a first-of-its-kind book covering the underlying principles and practical applications of PAT in a systematic manner. Written in a tutorial format, the text:

- Addresses the fundamentals of PAT, the theory on photoacoustic effect, image reconstruction methods, and instrumentation
- Details advanced methods for quantitative PAT, which allow the recovery of tissue optical absorption coefficient and/or acoustic properties
- Explores the development of several image-enhancing schemes, including both software and hardware approaches
- Examines array-based PAT systems that are the foundation for the realization of 2-D, 3-D, and 4-D PAT
- Discusses photoacoustic microscopy (PAM) and combinations of PAT/PAM with other imaging methods
- Considers contrast-agents-based molecular PAT, with both nontargeted and cell receptor-targeted methods
- Describes clinical applications and animal studies in breast cancer detection, osteoarthritis diagnosis, seizure localization, intravascular imaging, and image-guided cancer therapy

**Photoacoustic Tomography** is an essential reference for graduate students, researchers, industry professionals, and those who wish to enter this exciting field.

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