



Vibrational Spectroscopic Imaging for Biomedical Applications (McGraw-Hill Biophotonics)

Gokulakrishnan Srinivasan

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The latest advances in vibrational spectroscopic biomedical imaging

Written by expert spectroscopists, *Vibrational Spectroscopic Imaging for Biomedical Applications* discusses recent progress in the field in areas such as instrumentation, detector technology, novel modes of data collection, data analysis, and various biomedical applications. This full-color volume covers various IR imaging techniques, including transmission reflection, transflection, and attenuated total reflection (ATR) imaging, and Raman imaging. The efficient use of vibrational spectroscopy in clinical applications is emphasized in this state-of-the-art guide.

Coverage includes:

- Automated breast histopathology using mid-IR spectroscopic imaging
- Synchrotron-based FTIR spectromicroscopy and imaging of single algal cells and cartilage
- Preparation of tissues and cells for infrared and Raman spectroscopy and imaging
- Evanescent wave imaging
- sFTIR, Raman, and surface-enhanced Raman spectroscopic imaging of fungal cells
- Widefield Raman imaging of cells and tissues
- Resonance Raman imaging and quantification of carotenoid antioxidants in the human retina and skin
- Raman microscopy for biomedical applications--efficient diagnosis of tissues, cells, and bacteria
- The current state of Raman imaging in clinical application
- Vibrational spectroscopic imaging of microscopic stress patterns in biomedical materials
- Tissue imaging with coherent anti-Stokes Raman scattering microscopy

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