

# Infrared and Raman Spectroscopic Imaging

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### Reviews

*Extremely helpful to all of group of individuals. It really is loaded with knowledge and wisdom Its been designed in an extremely basic way and is particularly simply after i finished reading through this ebook where actually altered me, affect the way i believe. (Lily Ryan)* 

### INFRARED AND RAMAN SPECTROSCOPIC IMAGING



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Condition: New. Publisher/Verlag: Wiley-VCH | This second edition of the must-have reference is updated and revised with approximately 30% new content to reflect the numerous instrumental developments and improvements, as well as the sig-nificant expansion of this rapidly developing field. With many valuable practical tips. | This second edition of the successful ready reference is updated and revised with approximately 30% new content to reflect the numerous instrumental developments and improvements, as well as the significant expansion of this rapidly developing field. For example, the combination of IR imaging with AFM has enhanced the achievable lateral resolution by an order of magnitude down to a few hundred nanometers, thus launching a multiplicity of new applications in material science. Furthermore, Raman and IR spectroscopic imaging have become key technologies for the life sciences and today contribute tremendously to a better and more detailed understanding of numerous biological and medical research topics. The topical structure of this new edition is now subdivided into four parts. The first treats the fundamentals of the instrumentation for infrared and Raman imaging and mapping and an overview on the chemometric tools for image analysis. The second part describes a wide varie-ty of applications ranging from biomedical via food, agriculture and plants to polymers and pharmaceuticals. This is followed by a description of imaging techniques operating beyond the diffraction limit, while the final part covers special methodical developments and their utility in specific fields. With its many valuable practical tips, this is a must-have overview for researchers in academic and industrial laboratories wishing to obtain reliable results with this method. | PrefacePART I: Basic MethodologyINFRARED AND RAMAN INSTRUMENTATION FOR MAPPING AND IMAGINGIntroduction to Mapping and ImagingMid-Infrared Microspectroscopy and MappingRaman Microspectroscopy and MappingNear-Infrared Hyperspectral ImagingRaman Hyperspectral ImagingMid-Infrared Hyperspectral ImagingMapping with Pulsed Terahertz RadiationSummaryCHEMOMETRIC TOOLS FOR IMAGE ANALYSISIntroductionHyperspectral Images: The MeasurementImage...

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