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A rapidly growing field, vibrational spectroscopy has found applications in industries including pharmaceutical manufacture, food and drug safety, and process monitoring on production lines.

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[Ihtesham ur Rehman; Zanyar Movasaghi; Shazza Rehman] -- "This book presents a variety of vibrational spectroscopic techniques, focusing on Raman and Fourier transform infrared (FTIR) spectroscopy and their use in noninvasive optical tissue diagnosis. It ...

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Complementary to MIR and NIR spectroscopy, Raman spectroscopy holds considerable potential as both a qualitative and quantitative biochemical analysis tool for tissue engineering in view of its non-destructive nature and minimal to no sample preparation.

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Vibrational Spectroscopy and Imaging: Applications for ...

Vibrational Micro-Spectroscopy of Human Tissues Analysis: Review.

Vibrational spectroscopy (Infrared (IR) and Raman) and, in particular, micro-spectroscopy and micro-spectroscopic imaging have been used to characterize developmental changes in tissues, to

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monitor these changes in cell cultures and to detect disease and drug-induced modifications.

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Although live tissue is a complex system consisting of various cells and extracellular matrices, it is another

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target that is observed through Raman spectroscopy. To observe live tissue, Raman spectroscopy is often used together with an endoscope. Haka et al. reported the application of Raman endoscopy for analysis of human breast cancer . The results suggested a sensitivity of 83% and specificity of 93% for the evaluation of freshly excised

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Raman spectroscopy and its use for live cell and tissue ...

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Spectroscopy / s p ε k ' t r ɒ s k ə p i / is the study of the interaction between matter and electromagnetic radiation (via electron spectroscopy, atomic spectroscopy, etc). Historically,

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spectroscopy originated through the study of visible light dispersed according to its wavelength, by a prism.

Spectroscopy - Wikipedia

The technique of vibrational analysis with scanning probe microscopy allows probing vibrational properties of materials at the submicrometer scale,

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and even of individual molecules. This is accomplished by integrating scanning probe microscopy and vibrational spectroscopy. This combination allows for much higher spatial resolution than can be achieved with conventional Raman/FTIR instrumentation. The technique is also nondestructive, requires non-extensive sample

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preparation, and provides more c

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Vibrational spectroscopy, alongside autofluorescence, provides information regarding the biochemical composition

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of a tissue in a non destructive manner by producing spectra based on the interaction of the light with the tissue. Chemometric analysis of the spectrum can char-Chapter 1 Principles and Techniques of Vibrational

Introduction: Optical and Vibrational Spectroscopy

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Vibrational spectroscopy is a non-destructive identification method that measures the vibrational energy in a compound. As each chemical bond has a unique vibrational energy, depending on which other compounds the chemical bond of interest is bound to, and

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because of this unique vibrational energy, each compound will have a unique fingerprint or the output identifying the peak strengths at specific vibrations.

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Vibrational spectroscopy uses electromagnetic radiation to probe vibrations within molecules, and allows

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analysis of such molecular vibrations .
Molecular vibrational energies are routinely investigated using Fourier transform infrared (FTIR) spectroscopy and Raman spectroscopy.

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