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myriad changes and  
advancements in the  
technologies involved  
in FTIR, particularly the  
development of  
diamond ATRs, this  
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FTIR spectroscopy to those new to the field and serves as an...

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Fourier transform infrared spectroscopy (FTIR) can provide crucial information on the molecular structure of organic and inorganic components and has been used extensively for

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Fourier-Transform  
Infrared (FTIR)  
Spectroscopy is  
commonly used to  
identify certain  
molecules or functional  
groups and the  
concentration of those  
molecules within a  
sample. The FTIR

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FTIR stands for Fourier transform infrared, the preferred method of infrared spectroscopy. When IR radiation is passed through a sample, some radiation is absorbed by the sample and some passes through (is transmitted). The

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resulting signal at the detector is a spectrum representing a molecular 'fingerprint' of the sample.

**FTIR Spectroscopy  
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Fourier-transform infrared spectroscopy (FTIR) is a technique used to obtain an infrared spectrum of absorption or emission of a solid, liquid or gas. An FTIR spectrometer

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simultaneously collects high-spectral-resolution data over a wide spectral range. This confers a significant advantage over a dispersive spectrometer, which measures intensity over a narrow range of wavelengths at a time. The term Fourier-transform infrared spectroscopy originates from the fact that a Fourier transform is requ



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Fourier Transform  
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can range from the  
simple coupled motion  
of the two atoms of a  
diatomic molecule to  
the much more  
complex motion of  
each atom in a large  
polyfunctional  
molecule. When a  
molecule is exposed to

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wide-spectrum radiation, some distinct parts of it are absorbed by the molecule.

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INFRARED  
SPECTROSCOPY**

Reflecting the myriad changes and advancements in the technologies involved in FTIR, particularly the development of diamond ATRs, this second edition of

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Hyphenated infrared techniques make use of the ability of FTIR to provide chemical information.

Frequently, FTIRs are interfaced to instruments that provide physical information to give

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hyphenated techniques that provide physical and chemical information on the same sample.

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Fundamentals of Fourier Transform Infrared Spectroscopy teaches the basics of FTIR spectroscopy to those new to the field and serves as an excellent reference for

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Fourier transform is a

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mathematical technique that can be used to transform a function from one real variable to another. It is a unique powerful tool for spectroscopists because a variety of spectroscopic studies are dealing with electromagnetic waves covering a wide range of frequency.

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Both infrared and Raman spectroscopy are covered comprehensively and up-to-date. Therefore the book may also be used as a handbook for easy reference. Written in the language of chemists, it explains the basic theory and

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