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Mossbauer The Vibrational Spectroscopy Of Polymers

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The relative merits of vibrational spectroscopy versus other techniques for characterization of polymer structure are discussed. Special emphasis is given to analysis of chain configuration, conformation, interchain interactions, phase separation behavior, green polymers, crystallization behavior, and crystalline region size.

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The possibilities of applications of vibrational spectroscopy techniques in the analysis and characterization of polymers are reviewed. The basic principles of the methods of Raman, mid-infrared, and near-infrared spectroscopies are briefly explained.

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The book will be of value to anyone beginning research on the vibrational spectroscopy of polymers, either from a physics or a chemistry background. It is intended to be especially suitable for use in undergraduate courses in physics, chemistry or materials science at both universities and polytechnics.

*The Vibrational Spectroscopy of Polymers by D. I. Bower*

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Vibrational spectroscopists have generally had two experimental techniques, IR absorption and Raman scattering, available for probing the structure of polyatomic molecules. However, despite its potential usefulness, Raman spectroscopy has traditionally been pursued in only a few laboratories, principally because of the lack of a suitable source of exciting radiation.

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Book Description: Vibrational spectroscopy is advantageous as an analytical tool for polymers and comprises two complementary techniques: infrared (IR) and Raman spectroscopy. This report is an absorbing overview of how these methods can be employed to provide information about complex polymeric macromolecules with respect to composition, structure, conformation and intermolecular interactions.

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Chapter 2 - Vibrational spectroscopy of polymers. Pages 35-76. Select Chapter 3 - Experimental IR spectroscopy of polymers. Book chapter Full text access. Chapter 3 - Experimental IR spectroscopy of polymers. Pages 77-145. Select Chapter 4 - Applications of IR spectroscopy to polymers.

*Spectroscopy of Polymers | ScienceDirect*

Thus, in the majority of analytical investigations of polymer constitution and any additives, chemical separation of the components is inevitable; a more complete picture of the sequence distribution and stereoregularity of structural units in polymers is obtained only in combination with NMR spectroscopy;

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the results of vibrational spectroscopic investigations of polymers at elevated temperatures are advantageously correlated with differential scanning calorimetry (DSC) and last but not ...

### *Vibrational Spectroscopy - an overview | ScienceDirect Topics*

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### *Vibrational Spectroscopy of Polymers: Principles and ...*

Therefore, it is important for the polymer scientist to have access to methods for characterising orientation. There are several methods available, including X-ray diffraction, nuclear magnetic resonance (NMR), birefringence, polarised fluorescence, ultrasonic measurements, and polarised vibrational spectroscopies (IR and Raman).

### *Using Polarised Vibrational Spectroscopy to Characterise ...*

Vibrational circular dichroism (VCD) spectra of anisotropic thin solid samples are often superimposed with large contributions of linear birefringence and linear dichroism. In this study a theoreti...

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