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Autore	Wagner, Wolfgang
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Autore	Kuptsov A. H
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Pubbl/distr/stampa	Amsterdam ; ; New York, : Elsevier, 1998
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Altri autori (Persone)	ZhizhinG. N (German Nikolaevich)
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Nota di contenuto

Front Cover; Handbook of Fourier Transform Raman and Infrared Spectra of Polymers; Copyright Page; Contents; Historical introduction; The essential principles of infrared absorption and Raman scattering; Important advantages of Raman spectroscopy; Main stages in the development of Fourier transform infrared spectroscopy; FTIR spectrometer - optical correlometer; Fourier transform Raman spectroscopy; Characterization of samples; Polymer classification; Polymer classification guide; Experimental conditions; Comments on data presentation; References; Appendix; Spectral interpretation literature
Spectral collections Acknowledgements; Spectra; Alphabetical compound name index; Alphabetical synonym or TM index; Alphabetical general formula index; Chemical Abstracts Service registry number index

Sommario/riassunto

A collection of infrared and Raman spectra of 500 natural and synthetic polymers of industrial importance is presented in this book. A large variety of compounds are included, starting with linear polyolefins and finishing with complex biopolymers and related compounds. The spectra were registered using Infrared Fourier Transform Spectrometers in the laboratory of the All-Russia Institute of Forensic Sciences. The IR and Raman spectra are presented together on the same sheet. The accompanying data include general and structure formulae, CAS register numbers, and sample preparation conditions.