

1. Record Nr.	UNINA9910143562703321
Autore	Griffiths Peter R. <1942->
Titolo	Fourier transform infrared spectrometry / / Peter R. Griffiths, James A. de Haseth
Pubbl/distr/stampa	Hoboken, N.J. : , : Wiley-Interscience, , [2007]
ISBN	1-62198-452-4 1-280-85503-7 9786610855032 0-470-10631-X 0-470-10629-8
Edizione	[Second edition.]
Descrizione fisica	1 online resource (556 pages)
Collana	Chemical analysis ; ; v. 171
Disciplina	535.8/42 543.57
Soggetti	Fourier transform infrared spectroscopy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	CHAPTER 1 INTRODUCTION TO VIBRATIONAL SPECTROSCOPY; CHAPTER 2 THEORETICAL BACKGROUND; CHAPTER 3 SAMPLING THE INTERFEROGRAM; CHAPTER 4 FOURIER TRANSFORMS; CHAPTER 5 TWO-BEAM INTERFEROMETERS; CHAPTER 6 OTHER COMPONENTS OF FT-IR SPECTROMETERS; CHAPTER 7 SIGNAL-TO-NOISE RATIO; CHAPTER 8 PHOTOMETRIC ACCURACY IN FT-IR SPECTROMETRY; CHAPTER 9 QUANTITATIVE ANALYSIS; CHAPTER 10 DATA PROCESSING; CHAPTER 11 CONVENTIONAL TRANSMISSION SPECTROMETRY; CHAPTER 12 POLARIZATION; CHAPTER 13 SPECULAR REFLECTION; CHAPTER 14 MICROSPECTROSCOPY AND IMAGING CHAPTER 15 ATTENUATED TOTAL REFLECTIONCHAPTER 16 DIFFUSE REFLECTION; CHAPTER 17 EMISSION; CHAPTER 18 FOURIER TRANSFORM RAMAN SPECTROMETRY; CHAPTER 19 TIME-RESOLVED SPECTROMETRY; CHAPTER 20 PHOTOACOUSTIC SPECTROMETRY; CHAPTER 21 SAMPLE MODULATION SPECTROMETRY WITH A STEP-SCAN INTERFEROMETER; CHAPTER 22 ATMOSPHERIC MONITORING; CHAPTER 23 COUPLED TECHNIQUES.
Sommario/riassunto	A bestselling classic reference, now expanded and updated to cover the

latest instrumentation, methods, and applications. The Second Edition of Fourier Transform Infrared Spectrometry brings this core reference up to date on the uses of FT-IR spectrometers today. The book starts with an in-depth description of the theory and current instrumentation of FT-IR spectrometry, with full chapters devoted to signal-to-noise ratio and photometric accuracy. Many diverse types of sampling techniques and data processing routines, most of which can be performed on even the less expensive instruments.
