

1. Record Nr.	UNINA9910455235703321
Autore	Alder John F
Titolo	Quantitative millimetre wavelength spectrometry [[electronic resource] /] / John F. Alder, John G. Baker
Pubbl/distr/stampa	Cambridge, U.K., : Royal Society of Chemistry, c2002
ISBN	1-84755-179-3
Descrizione fisica	1 online resource (138 p.)
Collana	RSC analytical spectroscopy monographs
Altri autori (Persone)	BakerJohn G
Disciplina	543/.57
Soggetti	Gases - Spectra Millimeter wave devices Electronic books.
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. http://site.ebrary.com/lib/backstage/docDetail.action?docID=10621208&p00=10621208 .
Nota di contenuto	BK9780854045754-FX001; BK9780854045754-FP001; BK9780854045754-FP005; BK9780854045754-FP007; BK9780854045754-FP011; BK9780854045754-00001; BK9780854045754-00021; BK9780854045754-00038; BK9780854045754-00065; BK9780854045754-00080; BK9780854045754-00089; BK9780854045754-00115; BK9780854045754-00119
Sommario/riassunto	This unique book demonstrates the current status, and future potential, of millimetre wavelength (MMW) spectrometry as a means of quantitative analysis of gaseous mixtures. After outlining the spectroscopic theory required, the authors then go on to discuss the components of an MMW cavity spectrometer, concentrating on compact, automatic, low-cost instruments. Other topics covered include solid state MMW sources with both cryogenically cooled and room temperature detectors. Post-detector signal processing, smoothing, filtering and spectral profile fitting are also discussed. The book concludes