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Descrizione fisica	1 online resource (261 p.)
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Soggetti	Vibrational spectra Molecular spectroscopy Raman effect, Surface enhanced
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Theory of molecular vibrations, the origin of infrared and Raman spectra -- The interaction of light with nanoscopic metal particles and molecules on smooth reflecting surfaces -- Surface enhanced Raman scattering -- Chemical effects and the SERS spectrum -- Is SERS molecule specific? -- SERS/SERRS, the analytical tool -- Surface enhanced infrared spectroscopy.
Sommario/riassunto	Surface Enhanced Vibrational Spectroscopy (SEVS) has reached maturity as an analytical technique, but until now there has been no single work that describes the theory and experiments of SEVS. This book combines the two important techniques of surface-enhanced Raman scattering (SERS) and surface-enhanced infrared (SEIR) into one text that serves as the definitive resource on SEVS. Discusses both the theory and the applications of SEVS and provides an up-to-date study of the state of the art. Offers interpretations of SEVS spectra for practicing analysts. Discusses interpretation of