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Autore	Ferraro John R. <1918->
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Pubbl/distr/stampa	Amsterdam ; ; Boston, : Academic Press, c2003
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Altri autori (Persone)	NakamotoKazuo <1922-> BrownChris W
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Soggetti	Raman spectroscopy 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.
Nota di contenuto	Front Cover; Introductory Raman Spectroscopy; Copyright Page; Contents; Preface to the Second Edition; Acknowledgments; Preface to the First Edition; Acknowledgments; Chapter 1. Basic Theory; 1.1. Historical Background of Raman Spectroscopy; 1.2. Energy Units and Molecular Spectra; 1.3. Vibration of a Diatomic Molecule; 1.4 Origin of Raman Spectra; 1.5. Factors Determining Vibrational Frequencies; 1.6. Vibrations of Polyatomic Molecules; 1.7. Selection Rules for Infrared and Raman Spectra; 1.8. Raman versus Infrared Spectroscopy; 1.9. Depolarization Ratios; 1.10. The Concept of Symmetry 1.11. Point Symmetry Elements 1.12. The Character Table; 1.13. Classification of Normal Vibrations by Symmetry; 1.14. Symmetry Selection Rules; 1.15. Resonance Raman Spectra; 1.16. Space Group Symmetry; 1.17. Normal Vibrations in a Crystal; 1.18. Selection Rules for Solids (Factor Group); 1.19. Polarized Raman Spectra of Single Crystals; 1.20. Normal Coordinate Analysis; 1.21. Band Assignments and Isotope Shifts; References; General References; Chapter 2. Instrumentation and Experimental Technoques; 2.1. Major Components; 2.2. Excitation Sources; 2.3. Sample Illumination 2.4. Wavelength Selectors 2.5. Detection; 2.6. Instrument Calibration;

2.7. Sampling Techniques; 2.8. Fluorescence Problems; 2.9. Raman Difference Spectroscopy; 2.10. Miniature Raman Spectrometers; References; General References; Chapter 3. Special Techniques; 3.1. High-Pressure Raman Spectroscopy; 3.2. Raman Microscopy; 3.3. Surface-Enhanced Raman Spectroscopy (SERS); 3.4. Raman Spectroelectrochemistry; 3.5. Time-Resolved Raman (TR2) Spectroscopy; 3.6. Matrix-Isolation Raman Spectroscopy; 3.7. 2D Correlation Raman Spectroscopy; 3.8. Raman Imaging Spectrometry 3.9. Nonlinear Raman SpectroscopyReferences; Chapter 4. Materials Applications; 4.1. Applications to Structural Chemistry; 4.2. Solid State Applications; References; Chapter 5. Analytical Chemistry; 5.1. Preprocessing Spectra; 5.2. Full-Spectra Processing Methods; 5.3. Quantitative Analysis; 5.4. Spectral Searches; 5.5. Discriminant Analysis; References; Chapter 6. Biochemical and Medical Applications; 6.1 Biochemical Applications; 6.2. Medical Applications; References; Chapter 7. Industrial, Environmental and Other Applications; 7.1. Industrial Applications; 7.2. Environmental Applications 7.3. Other ApplicationsReferences; Appendices; Index

Sommario/riassunto

This second edition of Introductory Raman Spectroscopy serves as a guide to newcomers who wish to become acquainted with this dynamic technique. Written by three acknowledged experts this title uses examples to illustrate the usefulness of the technique of Raman spectroscopy in such diverse areas as forensic science, biochemistry, medical, pharmaceutical prescription and illicit drugs. The technique also has many uses in industry. Updated Applications chapter. Demonstrated the versatility and utility of Raman spectroscopy in problem solving in science. Serves as an excellent ref

2. Record Nr.	UNINA9910777954703321
Autore	Kunitz Stephen J
Titolo	Disease change and the role of medicine : the Navajo experience // Stephen J. Kunitz
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ISBN	1-282-35559-7 0-520-90964-X
Descrizione fisica	1 online resource (238 pages)
Collana	Comparative studies of health systems and medical care
Disciplina	362.1/08997
Soggetti	Navajo Indians - Diseases Navajo Indians - Mortality Navajo Indians - Medical care Navajo Indians - Medicine Indians of North America - Diseases - Southwest, New Indians of North America - Mortality - Southwest, New Indians of North America - Medical care - Southwest, New Indians of North America - Medicine - Southwest, New
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Nota di contenuto	Frontmatter -- Contents -- Acknowledgments -- Introduction -- 1. Mortality, Fertility and Social Organization -- 2. Economic and Demographic Change on the Navajo Reservation -- 3. Disease Patterns on the Navajo Reservation -- 4. Traditional Navajo Health Beliefs and Practices (by Jerrold E. Levy) -- 5. Health Care Utilization (with Helena Temkin-Greener) -- 6. Changing Mortality and the Role of Medicine -- Appendix I: Data and Methods -- APPENDIX II -- Notes -- References -- Index
Sommario/riassunto	Stephen Kunitz's work raises crucial issues for public policy in the medical field, and will be valuable for social scientists, physicians, and health professionals concerned with the social context of public health and other medical facilities.