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Autore	Miller Foil A
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Nota di contenuto	COURSE NOTES ON THE INTERPRETATION OF INFRARED AND RAMAN SPECTRA; CONTENTS; Foreword; Preface; ACKNOWLEDGMENTS AND AN ANNOUNCEMENT; 1 Introduction; 2 Characteristic Frequencies of Alkanes; 3 Characteristic Frequencies of Alkenes (Olefins); 4 Characteristic Frequencies of Molecules with Triple Bonds and Cumulated Double Bonds; 5 Characteristic Frequencies of Aromatic Compounds (Group Frequencies of Arenes); Introduction to Exercises; Exercise Section I; 6 Spectra of X-H Systems (With Emphasis on O-H and N-H Groups) 7 Spectra of Carbonyl Compounds of All Kinds (Factors Affecting Carbonyl Group Frequencies)8 Amides, Carboxylate Ion, and C-O Single Bonds; 9 Groups Containing N=O Bonds, or Si, P, S, or Halogen Atoms; Exercise Section II; 10 Infrared Spectra of Polymers: Introduction; 11 Infrared Spectra of Inorganic Materials; 12 Survey of Infrared and Raman Group Frequencies; Exercise Section III; 13 Sample-Handling

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Sommario/riassunto	Interpretation of IR and Raman Spectra provides the fundamentals of interpreting IR and Raman spectra of complex molecules primarily organic molecules. Examinations of theory provide a basis for predicting functional group frequency location in new molecular structures. Generously enriched with sample exercises to help rapidly develop powerful interpretive skills.Includes appendices with fourteen bibliographies by subject area.