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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

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.