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| Nota di contenuto | Intro -- Preface -- The Electromagnetic Spectrum -- Contents -- About the Author -- 1 Molecular and Crystal Symmetries -- 1.1 Introduction -- 1.2 Symmetry Elements -- 1.3 Symmetry Operations -- 1.4 Molecular Symmetries -- 1.5 Elements of Matrices -- 1.6 Matrix Representation of Symmetry Operations -- 1.7 Molecular Point Groups |

-- 1.8 Determination of Molecular Point Groups -- 1.9 Crystallographic Point Groups -- 1.10 Point Group Notations -- 1.11 Summary -- 2 Elements of Group Theory and Multiplication Tables -- 2.1 Introduction -- 2.2 Elements of Group Theory -- 2.3 Classifications of Crystallographic Point Groups -- 2.4 Construction of Group Multiplication Tables of 32 Point Groups -- 2.5 Summary -- Appendix -- Group Multiplication Tables of 32 Point Groups -- 3 Orthogonality Theorem and Character Tables -- 3.1 Introduction -- 3.2 Representations -- 3.3 Orthogonality Theorem -- 3.4 Properties of Irreducible Representation -- 3.5 Parts of a Character Table -- 3.6 Characters of Representations in Point Groups -- 3.7 Construction of Character Tables -- 3.8 Mulliken Symbols -- 3.9 Transformation Properties -- 3.10 Summary -- Appendix: Character Tables -- Character Tables for Some Important Point Groups using Schoenflies Notation -- Character Tables for Linear Molecules -- 4 Normal Modes of Molecular Vibrations -- 4.1 Introduction -- 4.2 Molecular Motions -- 4.3 Relationship Between Reducible and Irreducible Representations -- 4.4 Characters of Matrices of Some Fundamental Symmetry Operations -- 4.5 Determination of Overall Reducible Representation of Nonlinear Molecules -- 4.6 Representations of Vibrational Modes of Nonlinear Molecules -- 4.7 Vibrational Modes in Some Nonlinear Molecules -- 4.8 Vibrational Modes in Some Linear Molecules -- 4.9 Summary -- 5 Vibrational Spectroscopy of Molecules -- 5.1 Introduction. 5.2 Some Useful Observations Concerning Molecular Vibrations -- 5.3 General Survey of Vibrational Spectroscopy -- 5.4 Infrared (IR) Spectral Region -- 5.5 Theory of IR Absorption -- 5.6 Infrared (IR) Spectrometer -- 5.7 Fourier Transform Infrared (FTIR) Spectroscopy -- 5.8 Role of Functional Groups in Vibrational Spectroscopy -- 5.9 Nomenclature of Internal Modes of Vibration -- 5.10 Theory of Raman Scattering -- 5.11 Raman Spectrometer -- 5.12 Fourier Transform (FT) Raman Spectrometer -- 5.13 Symmetry Based on Some Useful General Conclusions -- 5.14 Determination of Molecular Structures Using IR and Raman Results -- 5.15 Correlation Between Super Group-Subgroup Species -- 5.16 Summary -- Bibliography -- Index -- Untitled.
