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Modern Raman Spectroscopy: A Practical Approach

By Smith, Ewen; Dent, Geoffrey

Wiley, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface.Acknowledgements.CHAPTER 1: INTRODUCTION, BASIC THEORY AND PRINCIPLES.1.1 Introduction.1.2 Basic Theory.1.3 Molecular Vibrations.1.4 Summary.CHAPTER 2: THE RAMAN **EXPERIMENT - RAMAN INSTRUMENTATION, SAMPLE** PRESENTATION, DATA HANDLING AND PRACTICAL ASPECTS OF INTERPRETATION.2.1 Introduction.2.2 Choice of Instrument.2.3 Visible Excitation.2.4 NIR Excitation.2.5 Raman Sample Preparation and Handling.2.6 Sample Mounting Accessories.2.7 Microscopy.2.8 Calibration.2.9 Data Handling, Manipulation and Quantitation.2.10 Approach to Qualitative Interpretation.2.11 Summary.CHAPTER 3: THE THEORY OF RAMAN SPECTROSCOPY.3.1 Introduction.3.2 Absorption and Scattering.3.3 States of a System and Hooke's Law.3.4 The Nature of Polarizability and the Measurement of Polarization.3.5 The Basic Selection Rule.3.6 Number and Symmetry of Vibrations.3.7 Symmetry Elements and Point Groups.3.8 The Mutual Exclusion Rule.3.9 The Kramer Heisenberg Dirac Expression.3.10 Lattice Modes.3.11 Conclusions.CHAPTER 4: RESONANCE RAMAN SCATTERING.4.1 Introduction.4.2 Theoretical Aspects.4.3 Practical Aspects.4.4 Examples of the Use of Resonance Raman Scattering.4.5 Conclusions.CHAPTER 5: SURFACE-ENHANCED RAMAN SCATTERING AND SURFACE-ENHANCED RESONANCE RAMAN SCATTERING.5.1 Introduction.5.2 Theory.5.3 Electromagnetic and Charge Transfer Enhancement.5.4 Selection Rules.5.5 Applications of SERS 5.6 Applications of SERRS 5.7 The Basic

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