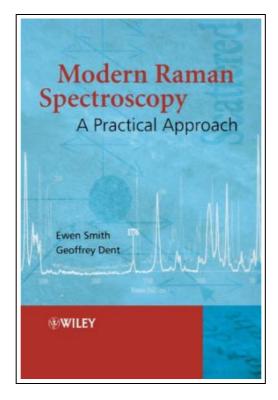
Modern Raman Spectroscopy: A Practical Approach



Filesize: 3.66 MB

Reviews

The most effective book i ever read through. It can be rally fascinating throgh looking at time period. Your lifestyle span will be enhance when you complete looking over this publication.

(Maribel Kerluke)

MODERN RAMAN SPECTROSCOPY: A PRACTICAL APPROACH



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 SERS.5.7 The Basic Method.CHAPTER 6: APPLICATIONS.6.1 Introduction.6.2 Inorganics and Minerals.6.3 Art and Archaeology.6.4 Polymers and Emulsions.6.5 Colour.6.6 Electronics Applications.6.7 Biological and Pharmaceutical Applications.6.8 Forensic Applications.6.9 Plant Control and Reaction Following.6.10 Summary.CHAPTER 7: MORE ADVANCED RAMAN SCATTERING TECHNIQUES.7.1 Flexible Optics.7.2 Tuneable Lasers, Frequency Doubling and Pulsed Lasers.7.3 Spatially Resolved Systems.7.4 Nonlinear Raman Spectroscopy.7.5 Time Resolved Scattering.7.6 Raman Optical Activity.7.7 UV Excitation.7.8 Conclusions.Index.



Read Modern Raman Spectroscopy: A Practical Approach Online

Download PDF Modern Raman Spectroscopy: A Practical Approach

You May Also Like



Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)

HarperCollins, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Foreword by Raph Koster. Introduction. I. EXECUTIVE CONSIDERATIONS. 1. The Market. Do We Enter the Market? Basic Considerations. How...

Download eBook

»



The Web Collection Revealed, Premium Edition: Adobe Dreamweaver CS6, Flash CS6, and Photoshop CS6 (Stay Current with Adobe Creative Cloud)

Cengage Learning, 2012. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: You can now maximize and integrate the design and development power of Adobe Creative Suite 6 with WEB...

Download eBook

»



Star Flights Bedtime Spaceship: Journey Through Space While Drifting Off to Sleep

CreateSpace Independent Publishing Platform, 2013. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: "Star Flights Bedtime Spaceship" is a charming and fun story with the purpose to help children...

Download eBook

»



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date: 2005-09-01 Publisher: Chinese children before making Reading: All books are the...

Download eBook

»



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date: 2005-09-01 Publisher: Chinese children before making Reading: All books are the...

Download eBook

»



Books for Kindergarteners: 2016 Children's Books (Bedtime Stories for Kids) (Free Animal Coloring Pictures for Kids)

2015. PAP. Book Condition: New. New Book. Delivered from our US warehouse in 10 to 14 business days. THIS BOOK IS PRINTED ON DEMAND.Established seller since 2000.

Read ePub

»



Shlomo Aronson: Making Peace with the Land, Designing Israel's Landscape

Spacemaker Press. Hardcover. Book Condition: New. 1888931167 Never Read-12+ year old Hardcover book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy-

Read ePub

»



You Shouldn't Have to Say Goodbye: It's Hard Losing the Person You Love the Most

Sourcebooks, Inc. Paperback / softback. Book Condition: new. BRAND NEW, You Shouldn't Have to Say Goodbye: It's Hard Losing the Person You Love the Most, Patricia Hermes, Thirteen-year-old Sarah Morrow doesn't think much of the

Read ePub

.



Rasputin's Daughter

Penguin Books. PAPERBACK. Book Condition: New. 0143038656 12+ Year Old paperback book-Never Read-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy-I ship FAST

Read ePub

>>



Hitler's Exiles: Personal Stories of the Flight from Nazi Germany to America

New Press. Hardcover. Book Condition: New. 1565843940 Never Read-12+ year old Hardcover book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy-

Read ePub

»