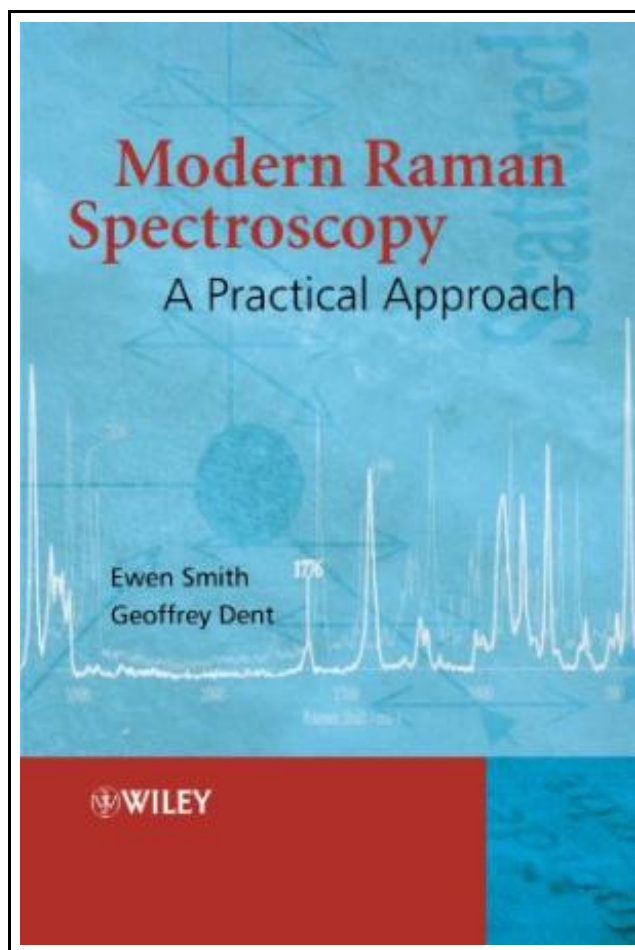


Modern Raman Spectroscopy: A Practical Approach



Filesize: 1.48 MB

Reviews

An extremely wonderful publication with lucid and perfect reasons. It typically will not expense too much. You are going to like the way the blogger compose this publication.

(Prof. Maya Hand)

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 SERRS.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](#)

Other eBooks



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...

[Save ePub »](#)



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...

[Save ePub »](#)



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...

[Save ePub »](#)



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...

[Save ePub »](#)



Edge] the collection stacks of children's literature: Chunhyang Qiuyun 1.2 --- Children's Literature 2004(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 Pages: 815 Publisher: the Chinese teenager Shop Books all book....

[Save ePub »](#)

**It's a Little Baby (Main Market Ed.)**

Pan Macmillan. Board book. Book Condition: new. BRAND NEW, It's a Little Baby (Main Market Ed.), Julia Donaldson, Rebecca Cobb, It's a Little Baby is a beautiful and engaging book for little ones from Julia

[Save Book »](#)

**Read Write Inc. Phonics: Blue Set 6 Non-Fiction 5 at the Seaside (Paperback)**

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 207 x 102 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books

[Save Book »](#)

**The Victim's Fortune: Inside the Epic Battle Over the Debts of the Holocaust**

HarperCollins. Hardcover. Book Condition: New. 0066212642 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- I

[Save Book »](#)

**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-

[Save Book »](#)

**The Clever Detective Boxed Set (a Fairy Tale Romance): Stories 1, 2 and 3 (Paperback)**

Createspace, United States, 2012. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.After six years as a private investigator, Stacey Alexander has the strangest day

[Save Book »](#)