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Spectroscopy played a key role in the development of quantum mechanics and is essential to understanding molecular properties and the results of spectroscopic experiments. It is used as a "stepping stone" to take us to the concepts of quantum mechanics and the quantum mechanical description of molecular properties in order to make the discussion more concrete and less abstract and ...

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This revision of Dr. Branwell's highly popular text retains the features which have made it so attractive to students and lecturers over the years. It remains an elementary and non-mathematical introduction to molecular spectroscopy that emphasizes the overall unity of the subject and offers a pictorial perception rather than a mathematical description of the principles of spectroscopy.

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Fundamentals of Molecular Spectroscopy. P S Sindhu. New Age International, 2006 - 426 pages. ... Raman Raman Spectroscopy region relation relative resonance respectively result rotational separation shift shown in Fig signal Solution spectra Spectroscopy spectrum spin splitting stretching structure

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symmetric Table term theory transition various ...

The Book Has 15 Chapters In All. The First Two Chapters Are Related To Atomic Structure And Atomic Spectra. The Next Chapter Is Devoted To Nature Of Chemical Bonds As Looked Upon Through Quantum Mechanics, Followed By All Types Of Spectroscopy. Every Aspect Is Explained With Some Typical Spectra. The Underlying Theory So Developed Will Help Students To Carry Out Spectral Analysis. Only Simple Quantum Mechanics Relevant To Simple Molecular Structure Has Been Given. Attempt Has Been Made To Relate The Characteristic Chemical Behavior Of These Molecules With Its Mo And Thus To Molecular Spectra. One Will Not Find Such Relationship In Any Book, But This Will Make Chemistry, As Such, Still More Interesting. Application Of Infrared And Ultra-Violet Spectroscopy, Nmr And Mass Spectra In Structure Determination Of Organic Molecules Are Very Elegantly Presented. In The Fourteenth Chapter, Lasers And Their Applications To Various Types Of Second, Third, And Fourth Order Scattering Spectroscopy Have Been Developed. The Book Has Minimum But Essential Mathematics With Very Easy Format In Its Text. Such An Approach Will Give A Clear Understanding Of The Subject And Provides Knowledge To Excel At Any Level University Examination, Competitive Examination, And Before Interview Boards.

As quantum theory enters its second century, it is fitting to examine just how far it has come as a tool for the chemist. Beginning with Max Planck's agonizing conclusion in 1900 that linked energy emission in discreet bundles to the resultant black-body radiation curve, a body of knowledge has developed with profound consequences in our ability to understand nature. In the early years, quantum theory was the providence of physicists and certain breeds of physical chemists. While physicists honed and refined the theory and studied atoms and their component systems, physical chemists began the foray into the study of larger, molecular systems. Quantum theory predictions of these systems were first verified through experimental spectroscopic studies in the electromagnetic spectrum (microwave, infrared and ultraviolet/visible), and, later, by nuclear magnetic resonance (NMR) spectroscopy. Over two generations these studies were hampered by two major drawbacks: lack of resolution of spectroscopic data, and the complexity of calculations. This powerful theory that promised understanding of the fundamental nature of molecules faced formidable challenges. The following example may put things in perspective for today's chemistry faculty, college seniors or graduate students: As little as 40 years ago, force field calculations on a molecule as simple as ketene was a four to five year dissertation project.

This textbook offers an introduction to the foundations of spectroscopic methods and provides a bridge between basic concepts and experimental applications in fields as diverse as materials science, biology, solar energy conversion, and environmental science. The author emphasizes the use of time-dependent theory to link the spectral response in the frequency domain to the behavior of molecules in the time domain, strengthened by two brand new chapters on nonlinear optical spectroscopy and time-resolved spectroscopy. Theoretical underpinnings are presented to the extent necessary for readers to understand how to apply spectroscopic tools to their own interests.

Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research. Written by experts in their specialist fields the series creates a unique service for the active research chemist, supplying regular critical in-depth accounts of progress in particular areas of chemistry. For over 80 years the Royal Society of Chemistry and its predecessor, the Chemical

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Society, have been publishing reports charting developments in chemistry, which originally took the form of Annual Reports. However, by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born. The Annual Reports themselves still existed but were divided into two, and subsequently three, volumes covering Inorganic, Organic and Physical Chemistry. For more general coverage of the highlights in chemistry they remain a 'must'. Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry. Some titles have remained unchanged, while others have altered their emphasis along with their titles; some have been combined under a new name whereas others have had to be discontinued. The current list of Specialist Periodical Reports can be seen on the inside flap of this volume.

A non-mathematical introduction to molecular spectroscopy. This revision includes: a chapter on the spectroscopy of surfaces and solids, new diagrams and problems, spectra that has been re-recorded on modern instruments, and enhanced applications of Fourier transform principles.

This Comprehensive Text Clearly Explains Quantum Theory, Wave Mechanics, Structure Of Atoms And Molecules And Spectroscopy. The Book Is In Three Parts, Namely, Wave Mechanics; Structure Of Atoms And Molecules; And Spectroscopy And Resonance Techniques. In A Simple And Systematic Manner, The Book Explains The Quantum Mechanical Approach To Structure, Along With The Basic Principles And Application Of Spectroscopic Methods For Molecular Structure Determination. The Book Also Incorporates The Electric And Magnetic Properties Of Matter, The Symmetry, Group Theory And Its Applications. Each Chapter Includes Many Solved Examples And Problems For A Better Understanding Of The Subject. With Its Exhaustive Coverage And Systematic Approach, This Is An Invaluable Text For B.Sc. (Hons.) And M.Sc. Chemistry Students.

Advances in Molecular Spectroscopy, Volume 3 provides information pertinent to the fundamental aspects of inorganic molecules and complexes. This book covers a variety of topics, including infrared spectrum, polyatomic ions, infrared emissions, and Raman spectra. Organized into five parts encompassing 72 chapters, this volume begins with an overview of the infrared spectrum of pyridine. This text then examines the results from studies of the infrared and Raman spectra of N<sub>2</sub>O<sub>4</sub> in the solid and liquid phases at low temperatures. Other chapters consider the infrared spectrum of a mixture of N<sub>2</sub>O<sub>3</sub> and N<sub>2</sub>O<sub>4</sub>, which has been studied in the liquid phase from 2 to 25 °C and in the solid phase from 2 to 35 °C, both at low temperatures. The final chapter describes the instrument developed for the measurement of rotatory dispersion and discusses some of the results obtained in the study of the complexes. This book is a valuable resource for chemists.

Water is the Earth's most precious resource. Until recent years, water was often overlooked as being overly abundant or available, but much has changed all over the world. As climate change, human encroachment on environmental areas, and deforestation become greater dangers, the study of groundwater has become more important than ever and is growing as one of the most important areas of science for the future of life on Earth. This three-volume set is the most comprehensive and up-to-date treatment of hydrogeochemistry that is available. The first volume lays the foundation of the composition, chemistry, and testing of groundwater, while volume two covers practical applications such as mass transfer and transport. Volume three, which completes the set, is an advanced study of the environmental analysis of groundwater and its implications for the future. This first volume in the set is an important milestone in hydrogeochemistry, covering the fundamentals of groundwater science. It also goes further into testing methods, applications of testing, and analysis. It is not only the introductory text for this groundbreaking and ambitious new three-volume project, but it is also a valuable reference for the scientist, engineer, or student. Whether as a textbook or a reference work, this volume is a must-have for any library on hydrogeochemistry.

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