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The main aim of this unique book is to introduce the student to spectroscopy in a clear manner which avoids, as far as possible, the mathematical aspects of the subject. It is thus intended for first or second year undergraduates, particularly those with minimal mathematics qualifications. After explaining the theory behind spectroscopy, the book then goes on to look at the different ...

### Basic Atomic and Molecular Spectroscopy (RSC Publishing) J ...

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### Basic Atomic and Molecular Spectroscopy, (Tutorial ...

Atomic and Molecular Spectroscopy:Basic Concepts and Applications, Rita Kakkar, Cambridge U. Press, 2015. \$75.00 (415 pp.). ISBN 978-1-107-06388-4 Buy at Amazon. In her preface to Atomic and Molecular Spectroscopy:Basic Concepts and Applications, Rita Kakkar writes that the book is primarily intended for graduateand advanced undergraduatestudents who have already taken a course in quantum mechanicsand know how to apply elementary molecular point-group representation theory.

### Atomic and Molecular Spectroscopy: Basic Concepts and ...

Atomic and Molecular Spectroscopy. J. Michael Hollas. The main aim of this unique book is to introduce the student to spectroscopy in a clear manner which avoids, as far as possible, the mathematical aspects of the subject. It is thus intended for first or second year undergraduates, particularly those with minimal mathematics qualifications.

### Basic Atomic and Molecular Spectroscopy | J. Michael ...

DOI: 10.1017/cbo9781107479999 Corpus ID: 98983259. Atomic and Molecular Spectroscopy: Basic Concepts and Applications @inproceedings(Kakkar2015AtomicAM, title={Atomic and Molecular Spectroscopy: Basic Concepts and Applications}, author={Rita Kakkar}, year={2015} )

### [PDF] Atomic and Molecular Spectroscopy: Basic Concepts ...

Atomic and molecular spectroscopy has provided basic information leading to the development of quantum mechanics and to the understanding of the building blocks of matter. It continues to provide further insight into the statics and dynamics of the microcosmos, and provides the means for test ing new concepts and computational methods.

### Atomic and Molecular Spectroscopy | SpringerLink

Atomic and Molecular Spectroscopy - by Rita Kakkar May 2015. ... We start this chapter by giving basic formulae and definitions relating to waves, including travelling waves. We then go on to the wave description of electromagnetic radiation and its manifestations, and then discuss the properties emerging from a particulate description of ...

### Fundamentals of Spectroscopy (Chapter 1) - Atomic and ...

9 Electronic Spectroscopy of Polyatomic Molecules 346 9.1 Introduction 346 9.2 Intensities of Electronic Transitions 346 9.2.1 Calculation of oscillator strength 347 Cambridge Univere sity Pre ss 978-1-107-06388-4 - Atomic and Molecular Spectroscopy: Basic Concepts and Applications Rita Kakkar Frontmatter More information

### Atomic and Molecular Spectroscopy

A molecule is a collection of positively charged atomic nuclei surrounded by a cloud of negatively charged electrons. Its stability results from a balance among the attractive and repulsive forces of the nuclei and electrons. A molecule is characterized by the total energy resulting from these interacting forces.

### Spectroscopy - Molecular spectroscopy | Britannica

However, there is some difference between atomic spectroscopy and molecular spectroscopy. The key difference between atomic spectroscopy and molecular spectroscopy is that the atomic spectroscopy refers to the study of the electromagnetic radiation absorbed and emitted by atoms whereas the molecular spectroscopy refers to the study of the electromagnetic radiation absorbed and emitted by molecules.

### Difference Between Atomic Spectroscopy and Molecular ...

Atomic and Molecular Spectroscopy is a wide-ranging review of modern spectroscopic techniques such as X-ray, photoelectron, optical and laser spectroscopy, and radiofrequency and microwave techniques. On the fundamental side it focuses on physical principles and the impact of spectroscopy on our understanding of the building blocks of matter, while in the area of applications particular attention is given to those in chemical analysis, photochemistry, surface characterisation, environmental ...

### Atomic and Molecular Spectroscopy: Basic Aspects and ...

Atomic and Molecular Spectroscopy: Basic Concepts and Applications. RitaKakkar 430 pp. Cambridge U.P., New York, 2015. Price: \$75 (hardcover). ISBN 978-1-107-06388-3. For most undergraduate students, molecular spectroscopy is introduced within the subject material covered in a typical physical chemistry course, where the primary emphasis is on ...

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### Atomic and Molecular Spectroscopy: Basic Aspects and ...

The emission and absorption spectra of the elements depend on the electronic structure of the atom. An atom consists of a number of negatively charged electrons bound to a nucleus containing an equal number of positively charged protons. The nucleus contains a certain number (Z) of protons and a generally different number (N) of neutrons.

### Spectroscopy - Foundations of atomic spectra | Britannica

Description Spectroscopy is the study of electromagnetic radiation and its interaction with solid, liquid, gas and plasma. It is one of the widely used analytical techniques to study the structure of atoms and molecules. The technique is also employed to obtain information about atoms and molecules as a result of their distinctive spectra.

### Atomic and Molecular Spectroscopy : Basic Concepts and ...

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### Atomic and Molecular Spectroscopy by Rita Kakkar

After explaining the theory behind spectroscopy, the book then goes on to look at the different techniques, such as rotational, vibrational and electronic spectroscopy. It encompasses both high resolution (structural) and low resolution (analytical) spectroscopy, demonstrating their close interrelationship. ... Basic Atomic and Molecular ...