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**and
Molecular
Spectroscopy**

Elsevier
The latest in
the 'Tutorial
Chemistry
Texts' series,
'Basic Atomic
and Molecular
Spectroscopy'
contains
chapters on
quantization
in
polyelectronic
atoms,
molecular
vibrations and
electronic
spectroscopy.
Frontiers of
Molecular
Spectroscopy
PHI Learning
Pvt. Ltd.
In the new
edition the
editors have
preserved the
basic concept
and structure,

with the
involvement
of some new
authors - all
recognized
experts in
laser
spectroscopy.
Each chapter
addresses a
different
technique,
providing a
review and
analysis of the
current status,
and reporting
some of the
latest
achievements.
With the key
formulas and
methods
detailed in
many
sections, this
text
represents a
practicable
handbook of
its subject. It
will be a

valuable tool
both for
specialists to
keep abreast
of
developments
and for
newcomers to
the field
needing an
accessible
introduction to
specific
methods of
laser
spectroscopy -
and also as a
resource for
primary
references.
*Organic
Spectroscopy*
Cambridge
University
Press
Much of what
we know
about atoms,
molecules,
and the
nature of
matter has

been obtained using spectroscopy over the last one hundred years or so. In this book we have collected together twenty chapters by eminent scientists from around the world to describe their work at the cutting edge of molecular spectroscopy. These chapters describe new methodology and applications, instrumental developments, and theory which is taking spectroscopy

into new frontiers. The range of topics is broad. Lasers are utilized in much of the research, but their applications range from sub-femtosecond spectroscopy to the study of viruses and also to the investigation of art and archeological artifacts. Three chapters discuss work on biological systems and three others represent laser physics. The recent advances in cavity

ringdown spectroscopy (CRDS), surface enhanced Raman spectroscopy (SERS), two-dimensional correlation spectroscopy (2D-COS), and microwave techniques are all covered. Chapters on electronic excited states, molecular dynamics, symmetry applications, and neutron scattering are also included and demonstrate the wide utility of spectroscopic techniques. *

provides comprehensive coverage of present spectroscopic investigations * features 20 chapters written by leading researchers in the field * covers the important role of molecular spectroscopy in research concerned with chemistry, physics, and biology
Atomic and Molecular Spectroscopy
 Royal Society of Chemistry 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. The fast-spreading field of spectroscopic applications has made a noteworthy influence on many disciplines,

including energy research, chemical processing, environmental protection and medicine. This book aims to introduce students to the topic of spectroscopy. The author has avoided the mathematical aspects of the subject as far as possible; they appear in the text only when inevitable. Including topics such as time-dependent perturbation theory, laser action and applications of

Group Theory in interpretation of spectra, the book offers a detailed coverage of the basic concepts and applications of spectroscopy.

MOLECULAR STRUCTURE AND SPECTROSCOPY

Springer Science & Business Media
Designed to serve as a textbook for postgraduate students of physics and chemistry, this second edition improves the clarity of treatment, extends the range of

topics, and includes more worked examples with a view to providing all the material needed for a course in molecular spectroscopy—from first principles to the very useful spectral data that comprise figures, charts and tables. To improve the conceptual appreciation and to help students develop more positive and realistic impressions of spectroscopy, there are two new chapters—one

on the spectra of atoms and the other on laser spectroscopy. The chapter on the spectra of atoms is a detailed account of the basic principles involved in molecular spectroscopy. The chapter on laser spectroscopy covers some new experimental techniques for the investigation of the structure of atoms and molecules. Additional sections on interstellar molecules,

inversion
vibration of
ammonia
molecule,
fibre-coupled
Raman
spectrometer,
Raman
microscope,
supersonic
beams and
jet-cooling
have also
been included.
Besides

worked-out
examples, an
abundance of
review
questions, and
end-of-chapter
problems with
answers are
included to aid
students in
testing their
knowledge of
the material
contained in

each chapter.
Solutions
manual
containing the
complete
worked-out
solutions to
chapter-end
problems is
available for
instructors.
*An
Introduction to
Laser
Spectroscopy*