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Handbook of Molecular Spectroscopy: From radio waves to gamma rays

D.N. Sathyanarayana

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This book provides a straightforward introduction to the spectroscopy of polyatomic inorganic and organic molecules at the master's degree courses. Students of chemistry, physics, geology and life sciences must develop an understanding of different spectroscopic techniques and their applications and therefore the book will be useful to them.

Following the general introduction to the subject, each chapter lays down the essential group theory and atomic spectroscopy required to understand molecular spectroscopy. The other chapters describe the various branches of spectroscopy: rotational, rotational-vibrational, infrared, Raman, electronic, luminescence, photoelectron and chiroptical spectroscopy.

The later chapters are devoted to magnetic resonance (NMR, ESR and NQR), Mossbauer and X-ray absorption spectroscopy. Also included is a chapter on the widely applicable analytical molecular mass spectrometry. A wide range of examples are used to describe how spectra arise and what information on the composition and structure of the molecules can be acquired from their study.

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