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Molecular and Atomic Spectroscopy

By R. Wilfred Sugumar

MJP Publishers, 2008. Softcover. Book Condition: New. First edition. 16 x 24 cm. This book on molecular and atomic spectroscopy explores the underlying principles of contemporary spectroscopic methods in chemical analysis. This book amply covers all the important spectroscopic techniques and chemistry relevant to sampling, sample preparation and chemical processes. The treatment of each type of spectra is given with a brief introduction, followed by discussion of theoretical aspects, experimental details and examples of applications. This book would be of immense help to students and researchers involved in modern analytical methods. Contents 1. Spectroscopy, Spectrometry and the Spectrum 2. Spectrometry from Radiofrequency to y-Rays 3. Review of Energy, Wavelength, Frequency and Temperature 4. The Transformation of Light Energy 5. Measurement of Spectra 6. Emission and Absorption Spectrometry 7. Fluorescence & Phosphorescence Spectrometry 8. Diffuse Reflectance Spectrometry 9. Electronic Spectroscopy UV Visible Spectroscopy 10. Electronic Spectrometry : UV & Visible Spectrometry 11. Instrumentation-Single-Beam and Double-Beam Instruments 12. Radiation Sources, Detectors and Read-Out Devices Electronic Spectroscopy 13. Woodward-Fieser Rules 14. Applications to Organic & Inorganic Systems 15. Spectral Problems and Solutions 16. IR Spectroscopy 17. Vibrational Frequencies and Normal Vibrational Modes 18. Spectral Features of Major Functional Groups and Interpretation of IR...



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