



# **Atomic and Molecular Spectroscopy: Basic Aspects and Practical Applications (Springer series on atoms & plasmas)**

*Sune Svanberg*

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This textbook provides a review of modern techniques of atomic and molecular spectroscopy. A brief description of atomic and molecular structure is followed by the relevant energy structure expressions. Then, after a discussion of radiative properties and the origin of spectra, spectroscopy techniques are covered - X-ray and photo-electron spectroscopy, optical spectroscopy, and radio-frequency and microwave techniques. In a treatment of laser spectroscopy, various tunable sources and a wide range of techniques characterized by high sensitivity and high resolution are discussed. Throughout the book, the relation between fundamental and applied aspects is emphasized, in particular by descriptions of applications to chemical analysis, photochemistry, surface characterization, environmental and medical diagnostics, remote sensing and astrophysics.

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