MODERN SPECTROSCOPY
Fourth Edition

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The fourth edition of *Modern Spectroscopy* introduces the reader to a wide range of spectroscopies and includes both the background theory and applications to structure determination and chemical analysis. It covers rotational, vibrational, electronic, photoelectron and Auger spectroscopy, as well as EXAFS, and the theory of lasers and laser spectroscopy.

New material includes laser detection and ranging (LIDAR), cavity ring-down spectroscopy, femtosecond lasers, femtosecond spectroscopy and very high resolution fluorescence of large molecules. In addition the clarity of figures has been greatly improved with some new infrared spectra run by Professor Ben van der Veken at the University of Antwerp especially for this new edition.

A revised and updated edition of a successful, clearly written textbook *Modern Spectroscopy, Fourth Edition:*

- Includes the latest developments in modern laser techniques.
- Contains a discussion of molecular symmetry.
- Provides numerous worked examples, calculations and questions at the end of chapters.
- Has improved the clarity of many of the figures.

Written by an author with many years' teaching and research experience, *Modern Spectroscopy, Fourth Edition* will prove invaluable for students of chemistry, physics, and chemical physics studying atomic and molecular spectroscopy, lasers and laser spectroscopy, and molecular symmetry.

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