



# Laser Spectroscopy: Vol. 2: Experimental Techniques

*By Wolfgang Demtröder*

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Keeping abreast of the latest techniques and applications, this new edition of the standard reference and graduate text on laser spectroscopy has been completely revised and expanded. While the general concept is unchanged, the new edition features a broad array of new material. This new edition has been completely revised, especially the chapters on non linear spectroscopy, ion trapping, ultra short laser pulses and new developments. Fifty new figures illustrate the newest developments and results. The author is one of the most renowned experts in this area and no other book with this broad scope is available.

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## **Editorial Review**

### **Review**

From the reviews of the fourth edition:

“The second volume discusses the different techniques of laser spectroscopy. ... problems and numerical examples have been added and the solutions to the problems are given at the end ... . In volume 2 the authors discuss in detail many different types of laser based spectroscopy ... . will be of use to instructors who wish to introduce new experimental spectroscopic studies into their lectures.” (Gary J. Long and Fernande Grandjean, Belgian Physical Society Magazine, Issue 3, 2010)

From the Back Cover

Keeping abreast of the latest techniques and applications, this new edition of the standard reference and graduate text on laser spectroscopy has been completely revised and expanded. While the general concept is unchanged, the new edition features a broad array of new material, e.g. frequency doubling in external cavities, reliable cw-parametric oscillators, tunable narrow-band UV sources, more sensitive detection techniques, tunable femtosecond and sub-femtosecond lasers (X-ray region and the attosecond range), control of atomic and molecular excitations, frequency combs able to synchronize independent femtosecond lasers, coherent matter waves, and still more applications in chemical analysis, medical diagnostics, and engineering. What's more, the chapters on non-linear spectroscopy, ion trapping, ultra-short laser pulses and new developments have been significantly improved and enlarged. In addition, 50 new figures illustrate the newest developments and results.

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