



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.

Users Review

From reader reviews:

Evelyn Brown:

This **Laser Spectroscopy: Vol. 2: Experimental Techniques** book is just not ordinary book, you have after that it the world is in your hands. The benefit you receive by reading this book is information inside this book incredible fresh, you will get facts which is getting deeper anyone read a lot of information you will get. This particular **Laser Spectroscopy: Vol. 2: Experimental Techniques** without we recognize teach the one who examining it become critical in thinking and analyzing. Don't become worry **Laser Spectroscopy: Vol. 2: Experimental Techniques** can bring when you are and not make your bag space or bookshelves' become full because you can have it inside your lovely laptop even phone. This **Laser Spectroscopy: Vol. 2: Experimental Techniques** having fine arrangement in word and also layout, so you will not really feel uninterested in reading.

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Carmen Dana:

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