



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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Laser Spectroscopy: Vol. 2: Experimental Techniques By Wolfgang Demtröder Bibliography

- Sales Rank: #2210825 in Books
- Published on: 2008-09-17
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.50" w x 6.14" l, 2.40 pounds
- Binding: Hardcover
- 797 pages

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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:

Anthony Flowers:

A lot of people always spent their particular free time to vacation or perhaps go to the outside with them household or their friend. Are you aware? Many a lot of people spent they free time just watching TV, or perhaps playing video games all day long. If you want to try to find a new activity that is look different you can read any book. It is really fun to suit your needs. If you enjoy the book that you read you can spent the whole day to reading a reserve. The book Laser Spectroscopy: Vol. 2: Experimental Techniques it is extremely good to read. There are a lot of people who recommended this book. These folks were enjoying reading this book. When you did not have enough space to deliver this book you can buy the e-book. You can m0ore quickly to read this book from a smart phone. The price is not to fund but this book possesses high quality.

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