



## Experiments in Modern Physics, Second Edition

By Adrian C. Melissinos, Jim Napolitano

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**Experiments in Modern Physics, Second Edition** By Adrian C. Melissinos, Jim Napolitano

A revision of the leading text on experimental physics. The feature of this book that has made it one of the most loved texts on the subject is that it goes far beyond a mere description of key experiments in physics. The author successfully provides the reader with an understanding and appreciation of the 'physics' behind the experiments. The second edition will be an extensive revision introducing many new devices, including the use of computers and software programs, that have come into use since the publication of the first edition. In addition the important areas of condensed matter physics and optical physics will be added, including two entirely new chapters on lasers and optics.

- Modern analysis and acquisition techniques
- Integration with matlab for data analysis and display
- New experiments include fundamentals of lasers

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## **Experiments in Modern Physics, Second Edition** By **Adrian C. Melissinos, Jim Napolitano** **Bibliography**

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## **Editorial Review**

### Review

"...the new version of this classic text continues to set the standard as an introduction to experimental methods in physics."

-Cliffard Swartz for PHYSICS WORLD, September 2003

"As a general upper-level lab text, it is about as good as I could imagine, and a substantial improvement (especially in terms of being up to date) over the original text by Melissinos. It is a well-written and fairly comprehensive introduction to many of the basic experimental techniques in use today, with an excellent mix of physics background material and the type of 'hands-on' practical information that students need in order to excel in experimental research."

-Scott Wissink, Indiana University

"This book could be a significant improvement to all other books that I know about on this topic. I would seriously consider its adoption for my course. The book contains excellent examples of upper-level undergraduate experiments in optics, high resolution spectroscopy, and particle physics. It also contains very useful general information and background materials on several experimental techniques used in physics."

-Seyfollah Maleki, Union College

"Clear, detailed, and explicit. The coverage is great. The book is very complete and the experiments cover many subfields of physics in a balanced way. Melissinos was a classic. A modernized Melissinos is a clear need....I like the broad coverage of the book and the level of technical detail. I certainly will want to have it on my bookshelf."

-Hans-Otto Meyer, Indiana University

"This is a long-overdue and welcomed revision of the classic book in experimental modern physics that many faculty members used as undergraduate students. It has been significantly updated and revised, including many topics that were unknown at the time of the first edition, so that it should be a very useful text for the advanced undergraduate laboratory course in modern physics in all physics departments."

-Jay Newman, Union College

### From the Back Cover

This long-awaited revision of this highly popular text on advanced laboratory experiments has been thoroughly updated to include modern techniques and experiments of current interest. Important additions include two chapters on lasers, an entirely new chapter on electronics as well as new experiments on the electronic properties of solids.

Data acquisition by computer and data analysis tools are widely used. New experiments on chaos, Berry's phase, saturation absorption spectroscopy and muon decay have been added. As in the previous edition the emphasis is on results obtained by students.

This text is addressed to juniors and seniors enrolled in an advanced laboratory course in physics. In the past it has also proven to be a

valuable reference for instructors, graduate students and professional physicists.

About the Author

By Adrian C. Melissinos, and James Napolitano

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