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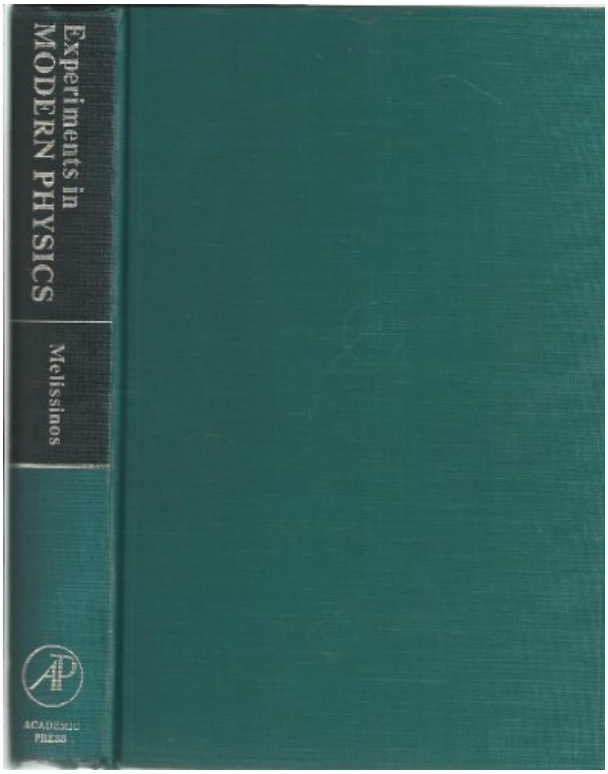

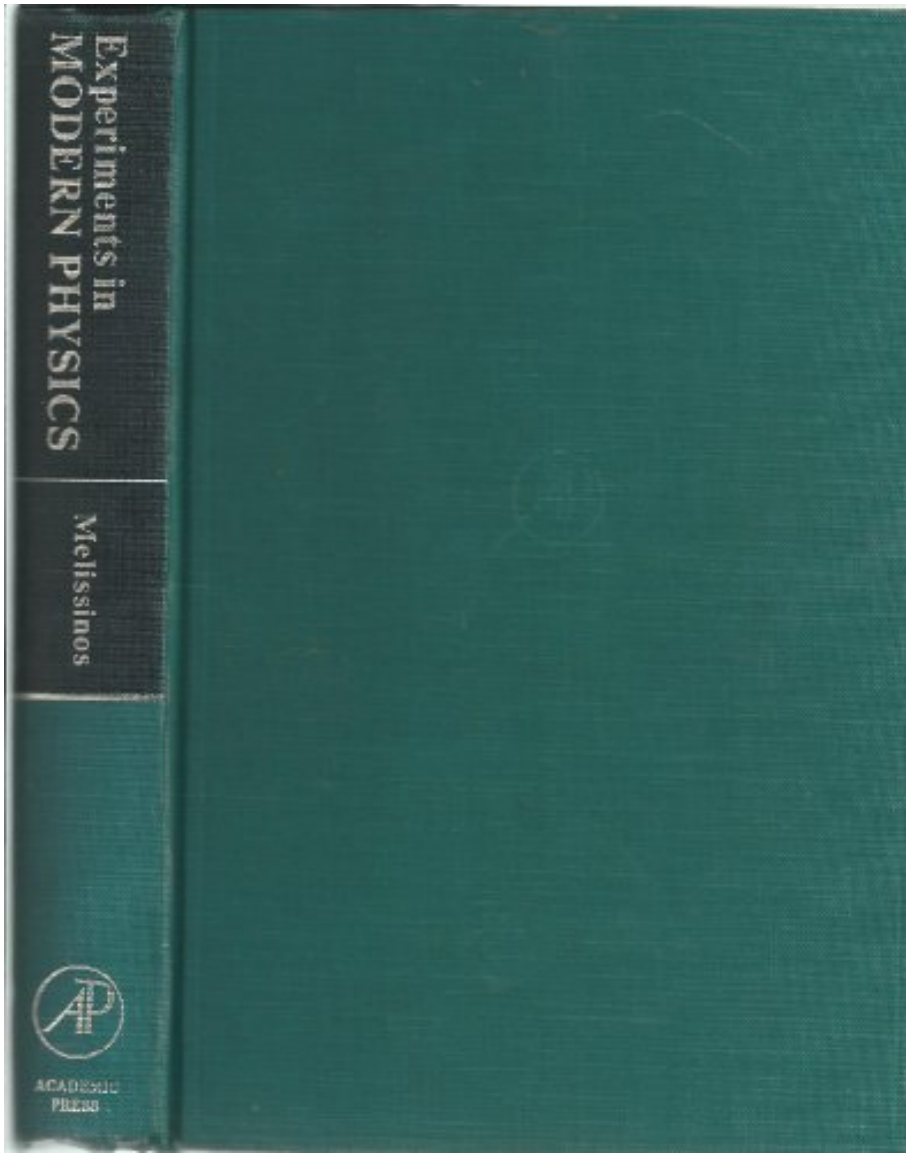

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Review
"...the new version of this classic text continues to set the standard as an introduction to experimental methods in physics."
-Cliffard Swartz for PHYSICS WORLD, September 2003

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The present text is an outgrowth of such a laboratory course given by the author at the University of Rochester between 1959 and 1963. It consisted of a one-year course with two 3-hour meetings in the laboratory and two 1-hour lecture meetings weekly; the students had access to the laboratory at all times and, in general, worked during hours of their own choice well in excess of the scheduled periods. The students worked in pairs, which in most cases provides a highly motivating and successful relationship.
The material included in this course was selected from those experiments in atomic and nuclear physics that have laid the foundation and provided the evidence for modern quantum theory. The experiments were set up in such a fashion that they could be completed in a two- to four-week period of normal work taking into account the other demands on the student's time.

Key Features
* Teaches students the methods and procedures of experimental physics at an advanced level; and offers the confidence in their abilities to measure physical entities and relationships between them
* Familiarizes students with modern research equipment and its use
* Makes students aware of the most basic techniques presently used in widely varying fields of physics
* Convinces students that the material they studied in their lecture courses can indeed be tested experimentally, and gives students the satisfaction of doing so themselves

- Sales Rank: #3753109 in Books
- Published on: 1966-05-12
- Original language: English
- Number of items: 1
- Dimensions: 1.20" h x 6.19" w x 9.21" l,
- Binding: Hardcover
- 459 pages

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Most helpful customer reviews

14 of 15 people found the following review helpful.
Excellent experimental reference!!!
By J. D. Lowrey
I purchased this book with hopes of gaining some insight into the theoretical aspects of the modern physics experiments I was working on in a junior laboratory. I must say that this book has been invaluable. The author masterfully details the most fundamental experiments in modern physics, making the material accessible to beginning undergrad students, yet still theoretically rich enough for advanced experimental practice.

Most modern physics experiments can more than likely be referenced somewhere in this book, which serves as a lab manual complete with data samples and example analysis. For myself, the analysis techniques

employed in the experiments contained within this book were the most helpful. Any physics student with experience in an advanced lab would agree that data and error analysis are the most critical part of any lab, making this book ideal as a reference.

I give this book five stars, but I must admit only one disappointment with its binding. I read a review, prior to buying this text, stating that the hardcover binding is somewhat prone to wearing out quickly, and indeed I think I have seen the beginning of this demise. However, I have made extensive use of the book, which has undoubtedly contributed to this problem.
Otherwise, I have gotten every cent's worth out of this book!

18 of 21 people found the following review helpful.
Not a Good Revision of a Classic Book
By Crystal
The 1st edition by Adrian Melissinos is a classic reference book with a wealth of practical information and data. That book was published in 1966; yet much of the theoretical treatments and methods are still applicable today. This 2nd edition either deleted or replaced some important original material. The 2nd edition did not do a good job in discussing new developments since the publication of the last edition. For instance, in the discussion of the Fabry-Perot method for high resolution spectroscopy, there was no mention of using a piezoelectric actuator which is commonly used at present and a significant development since the publication of the 1st edition. Useful data in nuclear experiments were deleted. A chapter of useful techniques in the 1st edition that deals with useful procedures such as pulse height analysis and basic vacuum technique was deleted.

2 of 2 people found the following review helpful.
For serious experimental science this is the book.
By Kermit R. Mercer
The book I have is the older one with an extensive coverage of vacuum systems. You can not enter the field of engineering, experimental physics easily without a background in the topics in this book. Well written and well illistrated. I recommend it.
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