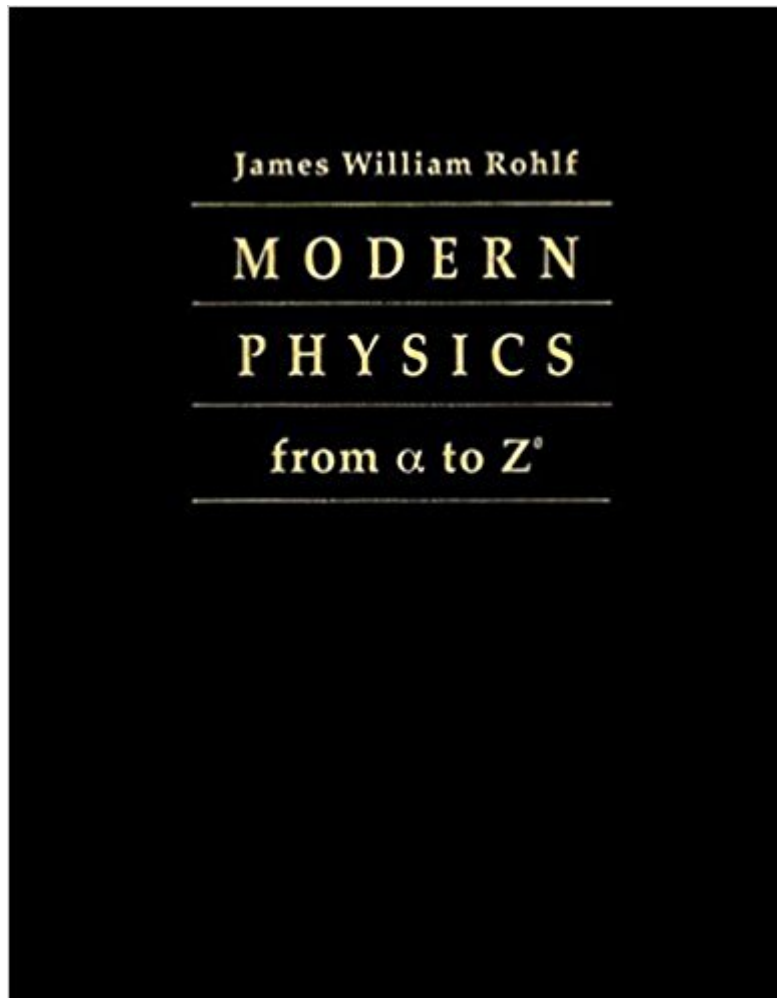




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Modern Physics From A To Z



Synopsis

Designed to teach fundamental ideas as opposed to physics by formula. The primary goal is to expose basic properties of the atom, focusing on the description of experiments and data, both historical and current, used to establish physics principles. Contains 250 carefully worked single concept problems which demonstrate the thinking behind the answer and yield numerically significant results. Prerequisites include some exposure to classical mechanics and electromagnetism.

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Having been exposed to numerous Modern Physics texts (Tipler, Serway, Eisberg and Resnick, Krane, Gasiorowicz) in my personal opinion this text strikes an excellent balance between length and

content. Necessarily it does delve into some albeit unnecessary topics and is a bit brief on others, however, the author has made a conscious effort to present the topic in a very logical manner (with a few minor infractions - the content of some of Chapter 1 seems misplaced). It does not have a plethora of flashy pictures for those that wish such. All around a great text for a first Modern physics course. My professor supplemented that text with Serway's Modern book which might be helpful but probably not necessary.

Since modern physics is hardly modern anymore, most of the important topics were developed 100 years ago, so it doesn't matter that the book is 11 years old. the best part is the lack of bright colors, useless notes on the side of the page, confusing layouts- all of which add unnecessary cost to already expensive textbooks. Furthermore, if you compare to other books, the problems are generally better, with similar treatment of main concepts. The book does suffer from the common problem of the first two chapters being mostly an historical review of concepts from 100 level physics.

Has a lot of mistakes. Not very rigorous in the mathematical aspect, skip a lot of steps and argues in a very vague way.

Book is in GREAT condition, glad it looks so great and I can keep it for many years to come.

I have taught this course a few times, from different books, but Rohlif is the best by far. Many of the textbooks are so verbose and meandering it's hard to take out of them what is really important. Rohlif has good examples and doesn't waste the students' time with superfluous issues. It's also on a higher level than most texts. That said, I would also recommend books like Schaum's Outline of Modern Physics, although it has some omissions. When you get right down to it, physics is all about solving problems, and what you want is a book full of them!

The good is that this book does not overwhelm you with flashy pictures like a lot of Physics books do. However, the book loses 2 stars for too many typos. It seemed like every week I would get an email from my professor with corrections to the problems. I'm docking it another star for some sections which I think could have been explained better. The chapter on semiconductors was not very enlightening. I had to read another book before I felt comfortable with the material. If they ever make another edition of this book, I'm sure it will be great, but this one is just a little too rough

around the edges.

This is really a good book. You can learn the fundamentals of modern physics comfortably. The discussions are well-presented and well-organized. The worked-out problems within chapters are especially useful, so allot ample time to study them. When I was using this book, there were a few typos, but I am sure the author must have corrected them. Some of the end-of-chapter problems may sound weird, they need some revision. Also, try not to use a calculator while solving the in-chapter problems, you can really improve your math skills.

This book is fantastic for educationally scoping out modern physics! Along with the intro. physics (Halliday, Resnick, Walker) book it is my other favorite physics book. All the topics in modern physics are covered by it and covered well. The graphics, problems, and examples are excellent and appropriate to the degree of difficulty. A good introductory book! A wonderful reference book that I'm still using!. If your looking for a way to learn and educate about modern topics and physics then get this book!

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