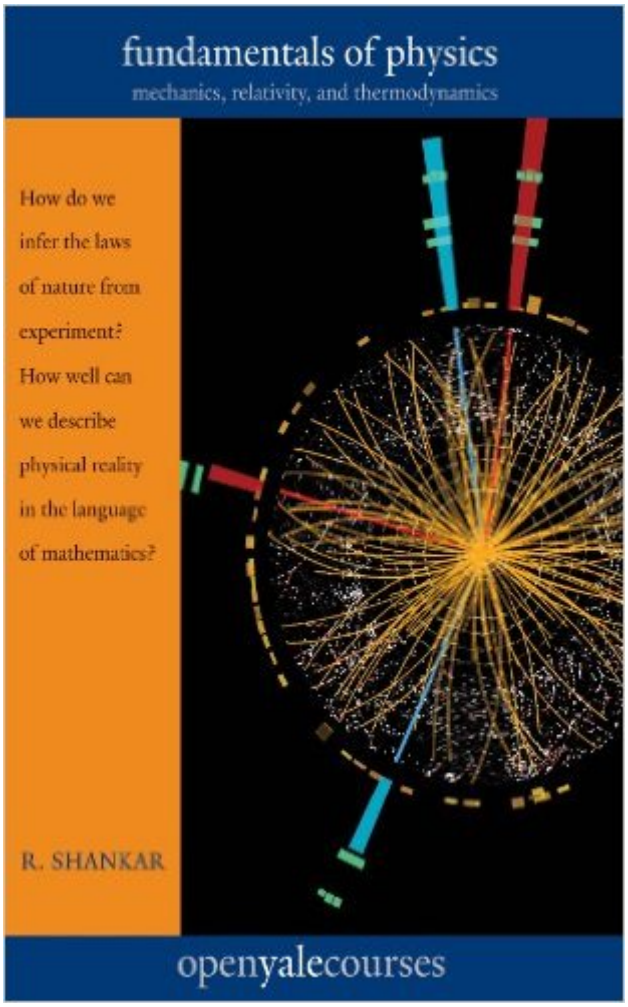
Fundamentals Of Physics: Mechanics, Relativity, And Thermodynamics (The Open Yale Courses Series)



Synopsis

Professor R. Shankar, a well-known physicist and contagiously enthusiastic educator, was among the first to offer a course through the innovative Open Yale Course program. His popular online video lectures on introductory physics have been viewed over a million times. In this concise and self-contained book based on his online Yale course, Shankar explains the fundamental concepts of physics from Galileoâ ™s and Newtonâ ™s discoveries to the twentieth-centuryâ ™s revolutionary ideas on relativity and quantum mechanics. Â The book begins at the simplest level, develops the basics, and reinforces fundamentals, ensuring a solid foundation in the principles and methods of physics. It provides an ideal introduction for college-level students of physics, chemistry, and engineering, for motivated AP Physics students, and for general readers interested in advances in the sciences.

Book Information

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Customer Reviews

Greetings! I am a student of philosophy at University of North Texas that digs a lot into scientific topics on my own. I personally own multiple physics textbooks (Feynman lectures, my university’s choice textbook, Dover’s Theoretical Physics textbook, etc) and this might be the best one for many

reasons:-It contains all the information contained in my other textbooks except for the content on electromagnetism (which is the subject of his second series of lectures on Yale's website) and quantum mechanics-It is $25, the cheapest of all the textbooks I have seen-It is small, lightweight, and only ~430 pages (The feynman lectures are multiple volumes, fragile, and bulky like the university textbook I have)In terms of the presentation, it tops the dover textbooks (which are usually written like they are being presented to 1950's grad students... the equations are difficult to follow and there is little explanation of what is being done. The topics are kind of random and jumbled). It is on par with my university's textbook for presentation, but isnt a giant 10lb monster and has a lot less miscellaneous information that textbooks are notorious for (also, that textbook was almost $300... granted it contains electromagnetism topics as well). It is hard to compare it to the presentation of the Feynman lectures because of how... unique they are. I would say for a general understanding, the average reader interested in the mathematical physics and a more focused reading would probably prefer Shankar's book.I think the best part is that there are just as many words as equations (with Shankar's humor that he adds in the lecture series that he based this book off of).

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