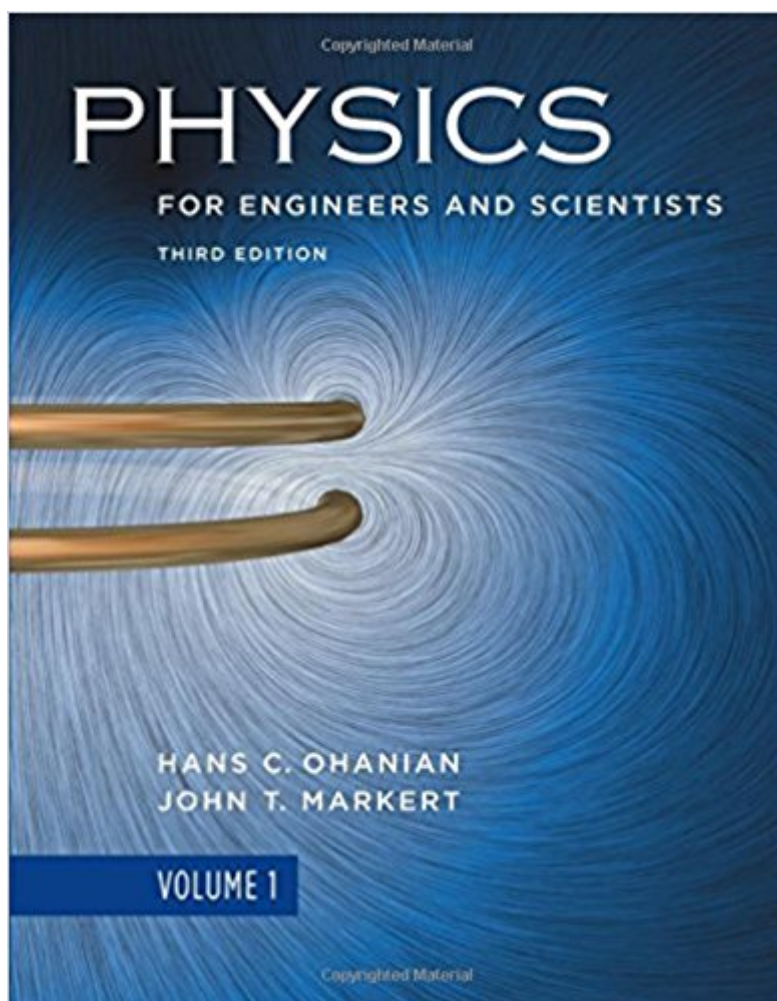


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# Physics For Engineers And Scientists (Third Edition) (Vol. 1)





## Synopsis

Designed for the introductory calculus-based physics course, *Physics for Engineers and Scientists* is distinguished by its lucid exposition and accessible coverage of fundamental physical concepts. The text presents a modern view of classical mechanics and electromagnetism for today's science and engineering students, including coverage of optics and quantum physics and emphasizing the relationship between macroscopic and microscopic phenomena. Organized to address specific concepts and then build on them, this highly readable text divides each chapter into short, focused sections followed by review questions. Using real-world examples, the authors offer a glimpse of the practical applications of physics in science and engineering, developing a solid conceptual foundation before introducing mathematical results and derivations (a basic knowledge of derivatives and integrals is assumed).

## Book Information

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## Customer Reviews

Hans C. Ohanian received his B.S. from the University of California, Berkeley, and his Ph.D. from Princeton University, where he worked with John A. Wheeler. He has taught at Rensselaer Polytechnic Institute, Union College, and the University of Vermont. He is the author of several textbooks spanning all undergraduate levels: *Physics*, *Principles of Physics*, *Relativity: A Modern Introduction*, *Modern Physics*, *Principles of Quantum Mechanics*, *Classical Electrodynamics*, and, with Remo Ruffini, *Gravitation and Spacetime*. He is also the author of dozens of articles dealing with gravitation, relativity, and quantum theory, including many articles on fundamental physics published in the *American Journal of Physics*, where he served as associate editor for some years. He lives in Vermont.

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College (1979) and his M.S. (1984) and Ph.D. (1987) in Physics from Cornell University, where he was recipient of the Clark Award for Excellence in Teaching. After postdoctoral research at the University of California, San Diego, he joined the faculty at the University of Texas, Austin, in 1990, where he has received the College of Natural Sciences Teaching Excellence Award and is currently Chair of the Department and Professor of Physics. His introductory physics teaching methods emphasize context-based approaches, interactive techniques, and peer instruction. He is author or coauthor of over 120 journal articles, including many on experimental condensed matter physics research in superconductivity, magnetism, and nanoscience. He lives in Austin, Texas, with his wife and children.

Wonderful text for beginning physics covered in a way that makes physics enjoyable for anyone. Topics include Newtonian physics, electricity and magnetism, waves, optics, relativity, quanta, particles, thermodynamics, etc. There are great illustrations, charts, graphs, tables, chapter checkups, discussion questions, problem sets, and appendices that cover everything you need to know to fully understand beginning physics. Text is utilized by the great Prof. Walter Lewin in his course 8.01 at M.I.T. Course is available from MIT for free on their website.

I think this is a wonderful resource. I got it before I realized it was not required for my course, but it was highly recommended for students who prefer textbook reading. Excellent source of information, clear and well-explained. Good, helpful diagrams. Good summaries for each chapter. Presents concepts and formulas of nature in a direct, easy-to-understand manner. I would recommend it to the best of my experience.

It's a good book with a lot of examples, but not intuitive and some answers are not explained in detail. Some math work is left for the student to figure out so if you are not that good or don't remember your algebra and calculus, you may need to catch up along the way. Great companion for MIT courseware for Physics.

This is a damaged book.

In the subject of physics, it can be very dry. The authors have taken the time to give modern day illustrations and real world examples and applications to apply so that the reader/student is able to comprehend the material better.



This is an excellent introductory text and covers a broad range of material. I would recommend it for introductory courses or for self-study.

For me: Excellent book with straight forward detailed explanations and good examples. Great large colorful format. It covers Physics I, II, and an introduction to Special Relativity and other issues. I am using it with the MIT OCW courses and it is a real pleasure to use!

Great textbook, used it at UT for physics 1.

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