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# MODERN PHYSICS

FOR SCIENTISTS AND ENGINEERS



FIFTH EDITION

# Modern Physics For Engineers

**Douglas C. Giancoli**



## **Modern Physics For Engineers:**

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account of the physics that has developed over the last hundred years and led to today's ubiquitous technology. The authors lead the reader through relativity, quantum mechanics, and the most important applications of both of these fascinating theories. With more than 100 years of combined teaching experience and PhDs in particle, nuclear, and condensed matter physics, these three authors could hardly be better qualified to write this introduction to modern physics. They have combined their award-winning teaching skills with their experience writing best-selling textbooks to produce a readable and comprehensive account of the physics that has developed over the last hundred years and led to today's ubiquitous technology. Assuming the knowledge of a typical freshman course in classical physics, they lead the reader through relativity, quantum mechanics, and the most important applications of both of these fascinating theories.

Modern Physics for Engineers and Scientists David Miller, 2027-05      **Modern Physics** John Morrison, 2009-11-04

*Modern Physics for Scientists and Engineers* provides an introduction to the fundamental concepts of modern physics and to the various fields of contemporary physics. The book's main goal is to help prepare engineering students for the upper division courses on devices they will later take and to provide physics majors and engineering students an up-to-date description of contemporary physics. The book begins with a review of the basic properties of particles and waves from the vantage point of classical physics, followed by an overview of the important ideas of new quantum theory. It describes experiments that help characterize the ways in which radiation interacts with matter. Later chapters deal with particular fields of modern physics. These include an account of the ideas and the technical developments that led to the ruby and helium-neon lasers and a modern description of laser cooling and trapping of atoms. The treatment of condensed matter physics is followed by two chapters devoted to semiconductors that conclude with a phenomenological description of the semiconductor laser. Relativity and particle physics are then treated together, followed by a discussion of Feynman diagrams and particle physics. Develops modern quantum mechanical ideas systematically and uses these ideas consistently throughout the book. Carefully considers fundamental subjects such as transition probabilities, crystal structure, reciprocal lattices, and Bloch theorem, which are fundamental to any treatment of lasers and semiconductor devices. Uses applets which make it possible to consider real physical systems such as many electron atoms and semiconductor devices.

*Physics for Scientists and Engineers with Modern Physics, Vol. 3 (Chs 36-44)* Douglas C. Giancoli, 2013-08-29

**Key Message:** This book aims to explain physics in a readable and interesting manner that is accessible and clear and to teach readers by anticipating their needs and difficulties without oversimplifying. Physics is a description of reality and thus each topic begins with concrete observations and experiences that readers can directly relate to. We then move on to the generalizations and more formal treatment of the topic. Not only does this make the material more interesting and easier to understand, but it is closer to the way physics is actually practiced.

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