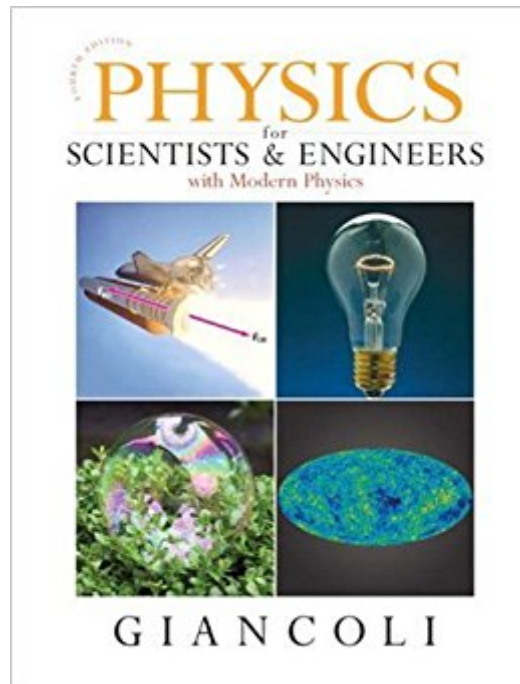




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# Physics For Scientists & Engineers With Modern Physics (4th Edition)



## Synopsis

>For the calculus-based General Physics course primarily taken by engineers and science majors (including physics majors). This long-awaited and extensive revision maintains Giancoli's reputation for creating carefully crafted, highly accurate and precise physics texts. Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the student into the physics. The new edition also features an unrivaled suite of media and on-line resources that enhance the understanding of physics. This book is written for students. It aims to explain physics in a readable and interesting manner that is accessible and clear, and to teach students 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 students 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.

## Book Information

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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. Key

Topics: INTRODUCTION, MEASUREMENT, ESTIMATING, DESCRIBING MOTION: KINEMATICS IN ONE DIMENSION, KINEMATICS IN TWO OR THREE DIMENSIONS; VECTORS, DYNAMICS: NEWTON'S LAWS OF MOTION, USING NEWTON'S LAWS: FRICTION, CIRCULAR MOTION, DRAG FORCES, GRAVITATION AND NEWTON'S6 SYNTHESIS, WORK AND ENERGY, CONSERVATION OF ENERGY, LINEAR MOMENTUM, ROTATIONAL MOTION, ANGULAR MOMENTUM; GENERAL ROTATION, STATIC EQUILIBRIUM; ELASTICITY AND FRACTURE, FLUIDS, OSCILLATIONS, WAVE MOTION, SOUND, TEMPERATURE, THERMAL EXPANSION, AND THE IDEAL GAS LAW KINETIC THEORY OF GASES, HEAT AND THE FIRST LAW OF THERMODYNAMICS, SECOND LAW OF THERMODYNAMICS, ELECTRIC CHARGE AND ELECTRIC FIELD, GAUSS'S LAW, ELECTRIC POTENTIAL, CAPACITANCE, DIELECTRICS, ELECTRIC ENERGY STORAGE ELECTRIC CURRENTS AND RESISTANCE, DC CIRCUITS, MAGNETISM, SOURCES OF MAGNETIC FIELD, ELECTROMAGNETIC INDUCTION AND FARADAY'S LAW, INDUCTANCE, ELECTROMAGNETIC OSCILLATIONS, AND AC CIRCUITS, MAXWELL'S EQUATIONS AND ELECTROMAGNETIC WAVES, LIGHT: REFLECTION AND REFRACTION, LENSES AND OPTICAL INSTRUMENTS, THE WAVE NATURE OF LIGHT; INTERFERENCE, DIFFRACTION AND POLARIZATION, SPECIAL THEORY OF RELATIVITY, EARLY QUANTUM THEORY AND MODELS OF THE ATOM, QUANTUM MECHANICS, QUANTUM MECHANICS OF ATOMS, MOLECULES AND SOLIDS, NUCLEAR PHYSICS AND RADIOACTIVITY, NUCLEAR ENERGY: EFFECTS AND USES OF RADIATION, ELEMENTARY PARTICLES, ASTROPHYSICS AND COSMOLOGY Market Description: This book is written for readers interested in learning the basics of physics. --This text refers to an out of print or unavailable edition of this title.

Douglas C. Giancoli obtained his BA in physics (summa cum laude) from UC Berkeley, his MS in physics at MIT, and his PhD in elementary particle physics back at the UC Berkeley. He spent 2 years as a post-doctoral fellow at UC Berkeley's Virus lab developing skills in molecular biology and biophysics. His mentors include Nobel winners Emilio Segrè and Donald Glaser. He has taught a wide range of undergraduate courses, traditional as well as innovative ones, and continues to update his textbooks meticulously, seeking ways to better provide an understanding of physics for students. Doug's favorite spare-time activity is the outdoors, especially climbing peaks. He says climbing peaks is like learning physics: it takes effort and the rewards are great.

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<http://www.pearsonhighered.com/educator/product/Physics-Principles-With-Applications-Plus-MasteringPhysics-with-eText-Access-Card-Package/9780321625915.page#sthash.CBi8Xrm4.dpuf> --This text refers to an out of print or unavailable edition of this title.

The book came in perfect condition. Giancoli is the premium standard for high school and college physics books. They are well written and contain a variety of problem that make you think about the material in a different way. It is a great supplement for classroom learning. As an Petroleum Engineering major, this book should have 5 stars. But the main issue I have is the price of the book, which is why I only gave it 4 stars. I do not believe college students should have to pay that astronomical price. The price of this book can equal the price of the class, and that is not good.

This book provides an excellent supplement to my physics 1 class. I find that reading the chapters really clarifies the concepts discussed/taught in my lecture and recitation, as the professors can get...distracted (physicists, am I right?) and ramble off topic. I also bought this because they recommended the 4th edition, but that was about a thousand dollars and there's really no difference between the two. Even most of the questions are the same. I'd recommend this for physics 1 students who want to save a few bucks.

Required for school, I did use the textbook a lot compared to others I have been asked to buy in the past. Worth the time reading.

Not a very good intro to physics book. I recommend University physics instead. The examples in this book are very unclear to the beginner in comparison to that book.

Good textbook! Lots of great examples that really incorporate lots of different concepts in each section :)

I'm a senior in high school taking AP Physics C. I bought this book as a supplement to our class textbook (mainly for additional practice) and for future use in college. Also, since this is the first time my teacher is teaching physics c, if there's something he can't explain very well, this book can. The content, descriptions, applications, and practice problems in this book are all great and very informative. The only complaint I have is their choice of certain variables for certain concepts (lower case  $l$  for ang. momentum,  $l$  instead of  $r$  for displacement vector) which can confuse someone who has taken previous classes in physics and is used to certain patterns.

It is a physics book. if you like physics you will like the book.

The text could have been a bit more polished and better examples could have been added. Not as comprehensive as I would have liked.

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