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Titolo	Physics for scientists and engineers with modern physics / / Douglas C. Giancoli
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ISBN	1-292-05320-8
Edizione	[Fourth edition, Pearson new international editon.]
Descrizione fisica	1 online resource (ii, 366 pages) : illustrations (some colour)
Collana	Always Learning
Disciplina	530
Soggetti	Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	1. Special theory of relativity -- Problem set (4/e): Special theory of relativity -- 2. Early quantum theory and models of the atom -- Problem set (4/e): Early quantum theory and models of the atom -- 3. Quantum mechanics -- Problem set (4/e): Quantum mechanics -- 4. Quantum mechanics of atoms -- Problem set (4/e): Quantum mechanics of atoms -- 5. Molecules and solids -- Problem set (4/e): Molecules and solids -- 6. Nuclear physics and radioactivity -- Problem set (4/e): Nuclear physics and radioactivity -- 7. Nuclear energy: effects and uses of radiation -- Problem set (4/e): Nuclear energy: effects and uses of radiation -- 8. Elementary particles -- Problem set (4/e): Elementary particles -- 9. Astrophysics and cosmology -- Problem set (4/e): Astrophysics and cosmology -- Appendix: Mathematics formulas -- Appendix: Derivatives and integrals -- Appendix: More on dimensional analysis -- Appendix: Gravitational force due to a spherical mass distribution -- Appendix: Differential form of Maxwell's equations --- Appendix: Selected isotopes.
Sommario/riassunto	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.