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Physics Textbook by Halliday, Resnick, Walker Fundamentals of Physics The cover page of Fundamentals of Physics Extended 9th edition. Authors David Halliday, Robert Resnick, Jearl Walker, Farrell Edwards, John J. Merrill Country United States of America Language American English Subject Physics Genre Textbook Published 1960 (John Wiley & Sons, Inc.) Media type Print (hardcover) Fundamentals of Physics is a calculus-based physics textbook by David Halliday, Robert Resnick, and Jearl Walker. The textbook is currently in its eleventh edition (published 2018). The current version is a revised version of the original 1960 textbook Physics for Students of Science and Engineering by Halliday and Resnick, which was published in two parts (Part I containing Chapters 1-25 and covering mechanics and thermodynamics; Part II containing Chapters 26-48 and covering electromagnetism, optics, and introducing quantum physics). A 1966 revision of the first edition of Part I changed the title of the textbook to Physics.[1] It is widely used in colleges as part of the undergraduate physics courses, and has been well known to science and engineering students for decades as "the gold standard" of freshman-level physics texts. In 2002, the American Physical Society named the work the most outstanding introductory physics text of the 20th century. The first edition of the book to bear the title Fundamentals of Physics, first published in 1970, was revised from the original text by Farrell Edwards and John J. Merrill.[2] Walker has been the revising author since 1990.[3] In the more recent editions of the textbook, beginning with the fifth edition,[4] Walker has included "checkpoint" questions. These are conceptual ranking-task questions that help the student before embarking on numerical calculations. The textbook covers most of the basic topics in physics: Mechanics Waves Thermodynamics Electromagnetism Optics Special Relativity The extended edition also contains introductions to topics such as quantum mechanics, atomic theory, solid-state physics, nuclear physics and cosmology. A solutions manual and a study guide are also available.[5] See also Physics education References ^ Resnick & Halliday, Physics, Part I, rev. ed. (New York, London, and Sydney: John Wiley & Sons, 1966), pp. v-vi, and Resnick & Halliday, Physics for Students of Science and Engineering, Part II, 2nd ed. (New York and London: John Wiley & Sons, 1962), pp. xi-xv. ^ Publications by John J. Merrill, Brigham Young University ^ Jearl D Walker, Profile page at CSU Ohio. ^ Amato, Joseph (December 1996). "The introductory calculus-based physics textbook". Physics Today. 49 (12): 46-51. Bibcode:1996PhT...49l..46A. doi:10.1063/1.881581. ^ Kim, Eunsook; Pak, Sung-Jae (2002). "Students do not overcome conceptual difficulties after solving 1000 traditional problems". American Journal of Physics. 70 (7): 759-765. Bibcode:2002AmJPh..70..759K. doi:10.1119/1.1484151. External links Fundamentals of physics at Wikibooks[1] This article about a physics-related book is a stub. You can help Wikipedia by expanding it.vte Retrieved from " This process is automatic. Your browser will redirect to your requested content shortly. Please wait a few seconds. This book arms readers with the tools to apply key physics concepts in the field.Science / Physics / GeneralThis content is DRM protected.You can read books purchased on Google Play using your computer's web browser.To read on e-ink devices like the Sony eReader or Barnes & Noble Nook, you'll need to download a file and transfer it to your device. Please follow the detailed Help center instructions to transfer the files to supported eReaders. 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