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For 50 years, Edward M. Purcell's classic textbook has introduced students to the world of electricity and magnetism. The third edition has been brought up to date and is now in SI units. It features hundreds of new examples, problems, and figures, and contains discussions of real-life applications. The textbook covers all the standard introductory topics, such as electrostatics, magnetism, circuits, electromagnetic waves, and electric and magnetic fields in matter. Taking a nontraditional approach, magnetism is derived as a relativistic effect. Mathematical concepts are introduced in parallel with the physics topics at hand, making the motivations clear. Macroscopic phenomena are derived rigorously from the underlying microscopic physics. With worked examples, hundreds of illustrations, and nearly 600 end-of-chapter problems and exercises, this textbook is ideal for electricity and magnetism courses. Solutions to the exercises are available for instructors at www.cambridge.org/Purcell-Morin. Revised and updated edition of a classic textbook, with Gaussian units now converted to SI units Hundreds of exercises, worked examples and illustrative figures have been added Applications at the end of each chapter enable students see how the concepts relate to the real worldRead moreAlthough the basic physics remains largely unchanged, the Purcell and Morin book has many clarifying discussions ... and most chapters end with current applications and a summary. Solutions to the problems represent roughly one-quarter of the text - they are a most welcome addition, particularly for self-study. (Purcell wrote out a solution manual by hand - mainly for instructors! - to accompany his first edition). H. Henry Stroke, *Physics Today* Customer reviews 09th Jul 2016 by MD123Awesome way of putting things that people already know, still feel that they are learning something new. Beautiful collection of problems.27th Nov 2018 by 1848353879你好 我是一名中国学生 我在线下看到你们这本书 我非常喜欢 我想问问 你们的练习题的答案可以给我一份吗?谢谢 1848353879@qq.com 这是我的邮箱 如果能给我发一份 不胜感激05th May 2019 by Zewart1An excellent Physics book for people from all subjects. Very very good!05th Aug 2019 by Otimus!t's educational and meaningful, an excellent textbook for college students to acquire new knowledge about electricity and magnetism.05th Apr 2022 by Han-zhan20one of the best textbooks for electricity and magnetism study, organising and attractiveSee all reviews Log in to review Edition: 3rd Edition Date Published: March 2013format: Hardbackisbn: 9781107014022length: 853 pages dimensions: 242 x 209 x 35 mmweight: 1.58kgcontains: 614 b/w illus. 592 exercises availability: In stock 1. Electrostatics: charges and fields 2. The electric potential 3. Electric fields around conductors 4. Electric currents 5. The fields of moving charges 6. The magnetic field 7. Electromagnetic induction 8. Alternating-current circuits 9. Maxwell's equations and electromagnetic waves 10. Electric fields in matter 11. Magnetic fields in matter Appendixes References Index.Look Inside!instructors have used or reviewed this title for the following coursesAccelerated Physics II: Electricity, Magnetism, and OpticsAdvanced Electricity and MagnetismAdvanced Electromagnetic TheoryAdvanced Introductory Physics IAdvanced PhysicsAnalytical Physics IIAutomotive Electrical and ElectronicsBasic PhysicsClassical Electrodynamics I, IIClassical Physics IIElectric and Magnetic FieldsElectricity and MagnetismElectricity, Magnetism, and WavesElectrodynamics IIElectromagnetic Fields and WavesIIElectromagnetic PhenomenonElectromagnetic Theory I & IIElectromagnetics IEngineering ElectromagneticsGeneral Physics IIntermediate Electricity and MagnetismIntermediate ElectromagnetismIntroduct. Physics: FieldsIntroduction to Electricity, Magnetism, and LightIntroduction to Magnetic MaterialsIntroductory Physics IIMaxwellian SynthesisSecond semester introductory physicsTHE ELECTROMAGNETIC INTERACTIONEdward M. PurcellEdward M. Purcell (1912–97) was the recipient of many awards for his scientific, educational and civic work. In 1952 he shared the Nobel Prize for Physics for his independent discovery of nuclear magnetic resonance in liquids and in solids, an elegant and precise way of determining chemical structure and properties of materials which is widely used today. During his career he served as science advisor to Presidents Dwight D. Eisenhower, John F. Kennedy and Lyndon B. Johnson.David J. Morin, Harvard University, MassachusettsDavid J. Morin is Lecturer on Physics and Associate Director of Undergraduate Studies in the Department of Physics, Harvard University. He is author of the textbook *Introduction to Classical Mechanics* (Cambridge University Press, 2008). For 50 years, Edward M. Purcell's classic textbook has introduced students to the world of electricity and magnetism. The third edition has been brought up to date and is now in SI units. It features hundreds of new examples, problems, and figures, and contains discussions of real-life applications. The textbook covers all the standard introductory topics, such as electrostatics, magnetism, circuits, electromagnetic waves, and electric and magnetic fields in matter. Taking a nontraditional approach, magnetism is derived as a relativistic effect. Mathematical concepts are introduced in parallel with the physics topics at hand, making the motivations clear. Macroscopic phenomena are derived rigorously from the underlying microscopic physics. With worked examples, hundreds of illustrations, and nearly 600 end-of-chapter problems and exercises, this textbook is ideal for electricity and magnetism courses. Solutions to the exercises are available for instructors at www.cambridge.org/Purcell-Morin. Want more? Advanced embedding details, examples, and help! Electromagnetism textbook originally written by Edward M. Purcell in 1965 Electricity and Magnetism Cover of the 2nd edition of the book, published in 1985AuthorEdward Mills PurcellCountryAmericaLanguageEnglishSubjectPhysics (electromagnetism)GenreTextbookPublication date1st: 19652nd: 19853rd: 2013 (with D. J. Morin) Electricity and Magnetism is a standard textbook in electromagnetism originally published by Nobel laureate Edward Mills Purcell in 1963.[1] Along with David Griffiths' *Introduction to Electrodynamics*, the book is one of the most widely adopted undergraduate textbooks in electromagnetism.[2] A Sputnik-era project funded by an National Science Foundation grant, the book is influential for its use of relativity in the presentation of the subject at the undergraduate level.[3] The 1965 edition, now freely available due to a condition of the federal grant, was originally published as a volume of the Berkeley Physics Course. A revised and updated version of the book was published posthumously by David J. Morin and Cambridge University Press in 2013, and is known colloquially as Purcell and Morin. It was noted by Norman Foster Ramsey Jr. in 1999 that the book was widely adopted and has many foreign translations.[4] Background The Berkley Series was influenced by MIT's Physical Science Study Committee that was formed shortly before Sputnik was launched in 1956. The satellite could be seen from rooftops at MIT with times published in the local Boston newspapers.[3] The space race affair is said to have caused a shake-up in the US scientific establishment and it led to new approaches to science education in the US.[3] Contents (3rd edition) Electrostatics: charges and fields The electric potential Electric fields around conductors Electric currents The fields of moving charges The magnetic field Electromagnetic induction Alternating-current circuits Maxwell's equations and electromagnetic waves Electric fields in matter Magnetic fields in matter Reception The book has received many reviews and recommendations since its initial publication in 1965. In his obituary for Purcell, Norman Foster Ramsey Jr. wrote in 1999 that it is an "excellent introductory textbook" with many foreign translations and was widely adopted.[4] In a 2013 review of Andrew Zangwill's *Electrodynamics in Physics Today*, Roy Schwitters states that he regularly encourages undergraduates to acquire the third edition of this book, along with John David Jackson's *Classical Electrodynamics*, before they are needed by later courses.[5] The book was named one of five books that stood out in 2013 by Jermeý N. A. Mathews in *Physics Today*. [6] Mathews praises the book for not deviating too far from Purcell's original and remarks that "[c]learly, Purcell's E&M matures slowly, and has taken on a life of its own; I won't be surprised to see the fourth edition appear another two decades from now." [6] Purcell's work is also praised in the 2018 third edition of the book *Conquering the Physics GRE*, where it is said to be "an extremely elegant introduction emphasizing physical concepts rather than mathematical formalism". [7] The book also recommends *Introduction to Electrodynamics* by David J. Griffiths.[7] The first edition of the book was reviewed by Benjamin F. Bayman in 1966,[8] who praises the book as a "beautiful book on electricity and magnetism", saying that he read the book with "great pleasure and profit". Bayman disputes the readability of the book for college sophomores, but goes on to praise the book's treatment of the subject as "very careful, very physical, and for the most part very clear" and that "in a few guiding sentences, he points the student towards the heart of the matter". [8] Bayman singles out the last two chapters over electric and magnetic fields in matter as especially good. In a 1998 review of the second edition,[9] the reviewer admits to using the first edition the previous year in an accelerated course for engineers and physics majors and states it was "the best introductory textbook I have seen", stating it "has not aged". The reviewer notes that the main problem with the book is the restrictions around the Berkeley Physics Series and it lacks references to wave phenomena, issues that were fixed in the new edition according to the review, the "result is spectacular". He concludes by stating he "strongly" recommended the book.[9] A 2012 review of a 2011 Cambridge University Press reprint of the 1988 second edition acknowledged that the book's foremost criticism is its lack of solutions to the problems given at the end of each chapter.[10] The reviewer states that this problem was exacerbated by not including many calculation examples throughout the text.[10] The book's use of cgs units rather than SI units was also mentioned as problematic.[10] The review continues by saying "[d]espite the criticism, this text is very beautifully written and gives a well-structured and clear insight into the topic"[10] and that it has "become some sort of standard" and "can be recommended to any student" for use in an introductory course of electromagnetism.[10] There were several reviews of the 2013 edition, with Morin as co-author, as well. One review[11] opens by saying the book is "a welcome and significantly improved re-edition of what is arguably one of the finest undergraduate introductory textbooks on the subject".[11] The reviewer praised the book's problem sets and stated that the "strongest aspect of the book" is its treatment of magnetism as a relativistic phenomenon.[11] Another reviewer deemed it "an excellent updated introduction to this classic 50 year old text". [12] A third review of the book called it a "welcome update to the original". [3] Original publication history Purcell, Edward M. (1965). *Electricity and Magnetism* (1st ed.). McGraw Hill. ISBN 978-0-7004-8592-5. Purcell, Edward M. (1985). *Electricity and magnetism* (2nd ed.). McGraw Hill. ISBN 978-0-07-004908-6. Purcell, Edward M.; Morin, David J. (2013). *Electricity and Magnetism* (3rd ed.). Cambridge University Press. ISBN 978-1-107-01402-2. 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