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Electricity and Magnetism AuthorEdward Mills Purcell CountryAmerica LanguageEnglish SubjectPhysics GenreTextbook Publication date 1st: 1965 2nd: 1985 3rd: 2013 Electricity and Magnetism is a standard textbook in electromagnetism originally published by Nobel laureate Edward Mills Purcell in 1963. Along with David Griffiths' Introduction to Electrodynamics, the book is one of the most widely adopted undergraduate textbooks in electromagnetism. A Sputnik-era project funded by an National Science F

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Electricity and Magnetism Cambridge University Press (2013), 830 pages. Edward Purcell and David Morin. Intended audience: Honors college freshmen, or upper-level college.

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Edward M. Purcell and David J. Morin \"Electricity and Magnetism\" Another excellent book to start with. It has somewhat more detail in places than Gri ths, but the beginning of the book explains both electromagnetism and vector calculus in an intertwined fashion. If you need some help with vector calculus basics, this would be a good place to turn.

Electromagnetism

Course Description This freshman-level course is the second semester of introductory physics. The focus is on electricity and magnetism. The subject is taught using the TEAL (Technology Enabled Active Learning) format which utilizes small group interaction and current technology.

Electricity and Magnetism | Physics | MIT OpenCourseWare

This book is an excellent updated introduction to this classic 50 year old text for 1st and 2nd year undergraduate electromagnetism. Starting from the basic concept of electronic charge and building in neat sequential units, from electrostatics, through current and into magnetism, it provides an excellent introduction to Maxwell's equations.

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New edition of a classic textbook, introducing students to electricity and magnetism, featuring SI units and additional examples and problems.

College physics course for students majoring in science and engineering.

The M.I.T. Introductory Physics Series is the result of a program of careful study, planning, and development that began in 1960. The Education Research Center at the Massachusetts Institute of Technology (formerly the Science Teaching Center) was established to study the process of instruction, aids thereto, and the learning process itself, with special reference to science teaching at the university level. Generous support from a number of foundations provided the means for assembling and maintaining an experienced staff to co-operate with members of the Institute's Physics Department in the examination, improvement, and development of physics curriculum materials for students planning careers in the sciences. After careful analysis of objectives and the problems involved, preliminary versions of textbooks were prepared, tested through classroom use at M.I.T. and other institutions, re-evaluated, rewritten, and tried again. Only then were the final manuscripts undertaken.

The sequence of topics covered include: electrostatics; steady currents; magnetic field; electromagnetic induction; and electric and magnetic polarization in matter. Taking a nontraditional approach, students focus on fundamental questions from different frames of reference. Each chapter has figures and problems to apply concepts studied.

Explains the fundamental concepts of Newtonian mechanics, special relativity, waves, fluids, thermodynamics, and statistical mechanics. Provides an introduction for college-level students of physics, chemistry, and engineering, for AP Physics students, and for general readers interested in advances in the sciences. In volume II, Shankar explains essential concepts, including electromagnetism, optics, and quantum mechanics. The book begins at the simplest level, develops the basics, and reinforces fundamentals, ensuring a solid foundation in the principles and methods of physics.

An engaging writing style and a strong focus on the physics make this graduate-level textbook a must-have for electromagnetism students.

This text advances from the basic laws of electricity and magnetism to classical electromagnetism in a quantum world. The treatment focuses on core concepts and related aspects of math and physics. 2016 edition.

For 40 years Edward M. Purcell's classic textbook has introduced students to the wonders of electricity and magnetism. With profound physical insight, Purcell covers all the standard introductory topics, such as electrostatics, magnetism, circuits, electromagnetic waves, and electric and magnetic fields in matter. Taking a non-traditional approach, the textbook focuses on fundamental questions from different frames of reference. Mathematical concepts are introduced in parallel with the physics topics at hand, making the motivations clear. Macroscopic phenomena are derived rigorously from microscopic phenomena. With hundreds of illustrations and over 300 end-of-chapter problems, this textbook is widely considered the best undergraduate textbook on electricity and magnetism ever written. An accompanying solutions manual for instructors can be found at www.cambridge.org/9781107013605.

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