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~~2.1 What is a Field~~

Electricity And Magnetism

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is an excellent updated
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electronic charge and
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Electricity and Magnetism

Author Edward Mills Purcell

Country America

Language English

Subject Physics Genre Textbook

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-

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Magnetism" Another excellent

book to start with. It has

somewhat more detail in

places than Griffiths, 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.

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some problems to build their confidence and others to stretch their minds. A Solutions Manual is available to instructors teaching from the book; access can be requested from the resources section at www.cambridge.org/electrodynamics.

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

The 1988 Nobel Prize winner establishes the subject's mathematical background, reviews the principles of

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electrostatics, then introduces Einstein's special theory of relativity and applies it to topics throughout the book.

This textbook covers all the standard introductory topics in classical mechanics, including Newton's laws, oscillations, energy, momentum, angular momentum, planetary motion, and special relativity. It also explores more advanced topics, such as normal modes, the Lagrangian method, gyroscopic motion, fictitious forces, 4-vectors, and general relativity. It contains more than 250 problems with

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detailed solutions so students can easily check their understanding of the topic. There are also over 350 unworked exercises which are ideal for homework assignments. Password protected solutions are available to instructors at www.cambridge.org/9780521876223. The vast number of problems alone makes it an ideal supplementary text for all levels of undergraduate physics courses in classical mechanics. Remarks are scattered throughout the text, discussing issues that are often glossed over in other textbooks, and it is thoroughly illustrated with more than 600 figures to

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help demonstrate key concepts.

A long overdue update, this edition of Introduction to Magnetism and Magnetic Materials is a complete revision of its predecessor. While it provides relatively minor updates to the first two sections, the third section contains vast updates to reflect the enormous progress made in applications in the past 15 years, particularly in magnetic recordin

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thermodynamics, and
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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.

'It is an excellent, concise introduction to the topic. It presents mathematical treatments of abstract concepts in a clear and straightforward way. I think it will be most effective as a companion to other excellent introductory texts, but readers who want to review the material will find the author's treatment of electricity and magnetism refreshing.'

Physics

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Today These lectures provide an introduction to a subject that together with classical mechanics, quantum mechanics, and modern physics lies at the heart of today's physics curriculum. This introduction to electricity and magnetism assumes only a good course in calculus, and familiarity with vectors and Newton's laws; it is otherwise self-contained. Furthermore, these lectures, although relatively concise, take one from Coulomb's law to Maxwell's equations and special relativity in a lucid and logical fashion. An extensive set of accessible problems enhances and

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extends the coverage. Review chapters spaced throughout the text summarize the material. Clear departure points for further study are indicated along the way. The principles of electromagnetism, as synthesized in Maxwell's equations and the Lorentz force, have such an astonishing range of applicability. A good introduction to this subject, even at the cost of some repetition, allows one to approach the many more advanced texts and monographs with better understanding and a deeper sense of appreciation that both students and teachers

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Classical Electrodynamics captures Schwinger's inimitable lecturing style, in which everything flows inexorably from what has gone before. Novel elements of the approach include the immediate inference of Maxwell's equations from Coulomb's law and (Galilean) relativity, the use of action and stationary principles, the central role of Green's functions both in statics and dynamics, and, throughout, the integration of mathematics and physics. Thus, physical problems in electrostatics are used to develop the properties of

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Bessel functions and spherical harmonics. The latter portion of the book is devoted to radiation, with rather complete treatments of synchrotron radiation and diffraction, and the formulation of the mode decomposition for waveguides and scattering. Consequently, the book provides the student with a thorough grounding in electrodynamics in particular, and in classical field theory in general, subjects with enormous practical applications, and which are essential prerequisites for the study of quantum field theory. An essential resource for both

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Physicists and their students, the book includes a "Reader's Guide," which describes the major themes in each chapter, suggests a possible path through the book, and identifies topics for inclusion in, and exclusion from, a given course, depending on the instructor's preference. Carefully constructed problems complement the material of the text, and introduce new topics. The book should be of great value to all physicists, from first-year graduate students to senior researchers, and to all those interested in electrodynamics, field

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theory, and mathematical physics. The text for the graduate classical electrodynamics course was left unfinished upon Julian Schwinger's death in 1994, but was completed by his coauthors, who have brilliantly recreated the excitement of Schwinger's novel approach.

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