

Basic Electromagnetism

E.R. Dobbs

Basic Electromagnetism Physics And Its Applications

David Dugdale



Basic Electromagnetism Physics And Its Applications:

Basic Electromagnetism E.R. Dobbs, 2013-03-12 Professor Dobbs provides an elegant and clear account of the subject leading the student from electrostatics through to Maxwell's equations and electromagnetic waves covering all the material needed by a student taking courses on electricity and magnetism and electromagnetic waves General Physics and Its Application to Industry and Everyday Life Ervin Sidney Ferry, 1925 *Electromagnetism* Tamer Becherrawy, 2013-05-21 This book deals with electromagnetic theory and its applications at the level of a senior level undergraduate course for science and engineering. The basic concepts and mathematical analysis are clearly developed and the important applications are analyzed. Each chapter contains numerous problems ranging in difficulty from simple applications to challenging. The answers for the problems are given at the end of the book. Some chapters which open doors to more advanced topics such as wave theory, special relativity, emission of radiation by charges and antennas are included. The material of this book allows flexibility in the choice of the topics covered. Knowledge of basic calculus, vectors, differential equations and integration and general physics is assumed. The required mathematical techniques are gradually introduced. After a detailed revision of time independent phenomena in electrostatics and magnetism in vacuum, the electric and magnetic properties of matter are discussed. Induction, Maxwell equations and electromagnetic waves, their reflection, refraction, interference and diffraction are also studied in some detail. Four additional topics are introduced: guided waves, relativistic electrodynamics, particles in an electromagnetic field and emission of radiation. A useful appendix on mathematics, units and physical constants is included.

Basic Electromagnetic Theory James Babington, 2016-07-21 This concise introduction to electromagnetic field theory emphasizes the physical foundations of the subject. Based on the author's experience both as a former field theorist working on quantum electrodynamics and currently as an applied optical physicist, it covers much material from the standard university syllabus plus develops a number of themes in greater detail so as to cover non-standard topics that provide a fuller understanding of the subject. New Developments in Ferromagnetism Research V. N. Murray, 2005 Ferromagnetism is a form of magnetism that can be acquired in an external magnetic field and usually retained in its absence so that ferromagnetic materials are used to make permanent magnets. A ferromagnetic material may therefore be said to have a high magnetic permeability and susceptibility which depends upon temperature. Examples are iron, cobalt, nickel and their alloys. Ultimately, ferromagnetism is caused by spinning electrons in the atoms of the material which act as tiny weak magnets. They align parallel to each other within small regions of the material to form domains or areas of stronger magnetism. In an unmagnetised material, the domains are aligned at random so there is no overall magnetic effect. If a magnetic field is applied to that material, the domains align to point in the same direction, producing a strong overall magnetic effect. Permanent magnetism arises if the domains remain aligned after the external field is removed. Ferromagnetic materials exhibit hysteresis. In 2004 it was discovered that a certain allotrope of carbon nanofoam exhibited ferromagnetism. The effect

dissipates after a few hours at room temperature but lasts longer at cold temperatures The material is also a semiconductor It is thought that other similarly formed materials of boron and nitrogen may also be ferromagnetic This new book rings together leading research from throughout the world Electromagnetic Fields Jean G. Van Bladel, 2007-06-04 Professor Jean Van Bladel an eminent researcher and educator in fundamental electromagnetic theory and its application in electrical engineering has updated and expanded his definitive text and reference on electromagnetic fields to twice its original content This new edition incorporates the latest methods theory formulations and applications that relate to today's technologies With an emphasis on basic principles and a focus on electromagnetic formulation and analysis Electromagnetic Fields Second Edition includes detailed discussions of electrostatic fields potential theory propagation in waveguides and unbounded space scattering by obstacles penetration through apertures and field behavior at high and low frequencies

Essentials of Electromagnetism David Dugdale, 1997-05-08 Market Students in undergraduate courses in electromagnetism This innovative textbook provides students with a modern view of the unity of electromagnetism by forsaking the traditional historically ordered development for a more logically ordered one This approach involves the introduction of Maxwell's equations at the earliest opportunity to serve as the basis for everything that follows

Information Computing and Applications, Part II Chunfeng Liu, Jincai Chang, Aimin Yang, 2011-12-22 The two volume set CCIS 243 and CCIS 244 constitutes the refereed proceedings of the Second International Conference on Information Computing and Applications ICICA 2010 held in Qinhuaingdao China in October 2011 The 191 papers presented in both volumes were carefully reviewed and selected from numerous submissions They are organized in topical sections on computational statistics social networking and computing evolutionary computing and applications information education and application internet and web computing scientific and engineering computing system simulation computing bio inspired and DNA computing internet and Web computing multimedia networking and computing parallel and distributed computing

General Physics and its Application to Industry and Everyday Life Ervin S. Ferry, 1921 **Theory and Applications of Electromagnetic Metamaterials** Fajun Xiao, Weiren Zhu, Xingzhan Wei, Ivan Rukhlenko, 2021-10-01

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