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Classical Electromagnetic Theory Classical Electromagnetic Theory Foundations of Electromagnetic Theory Electromagnetic Theory Electromagnetic Theory Electromagnetic Theory Recent Advances in Electromagnetic Theory Clerk Maxwell's Electromagnetic Theory The Principles of Electromagnetic Theory An Introduction to Electromagnetic Theory Electromagnetic Theory Elementary Electromagnetic Theory: Maxwell's equations and their consequences Elementary Electromagnetic Theory Electromagnetic Theory Advanced Electromagnetism The Power and Beauty of Electromagnetic Fields Lectures on Electromagnetic Theory Elements of Electromagnetic Theory Basic Electromagnetic Theory Electromagnetic Fields and Waves Electromagnetic Theory for Engineering Applications Primary Theory of Electromagnetics Modern Electromagnetic Scattering Theory with Applications Electromagnetic Frontier Theory Exploration Electromagnetics Electromagnetic Theory and Plasmonics for Engineers Electromagnetic Theory Introduction to Electromagnetic Theory Theory of Electromagnetic Waves Elementary Electromagnetic Theory Intermediate Electromagnetic Theory Theory of Electromagnetic Wave Propagation Singular Electromagnetic Fields and Sources The Electromagnetic Field James Clerk Maxwell and the Theory of the Electromagnetic Field Basic Electromagnetic Theory Propagation of Electromagnetic Signals Foundations of Electromagnetic Theory The Wave Concept in Electromagnetism and Circuits Electromagnetic theory

Classical Electromagnetic Theory

2006-01-17

in questions of science the authority of a thousand is not worth the humble reasoning of a single individual galileo galilei physicist and astronomer 1564 1642 this book is a second edition of classical electromagnetic theory which derived from a set of lecture notes compiled over a number of years of teaching elect magnetic theory to fourth year physics and electrical engineering students these students had a previous exposure to electricity and magnetism and the material from the rst four and a half chapters was presented as a review i believe that the book makes a reasonable transition between the many excellent elementary books such as gri th s introduction to electrodynamics and the obviously graduate level books such as jackson s classical electrodynamics or landau and lifshitz elect dynamics of continuous media if the students have had a previous exposure to electromagnetic theory all the material can be reasonably covered in two semesters neophytes should probable spend a semester on the rst four or ve chapters as well as depending on their mathematical background the appendices b to f for a shorter or more elementary course the material on spherical waves waveguides and waves in anisotropic media may be omitted without loss of continuity

Classical Electromagnetic Theory

2007-09-01

oliver heaviside is probably best known to the majority of mathematicians for the heaviside function in the theory of distribution his main research activity concerned the theory of electricity and magnetism this book brings together many of heaviside s published and unpublished notes and short articles written between 1891 and 1912

Foundations of Electromagnetic Theory

2009-09

the contributions of this book represent only a small sample of the work of the many researcher electromagnetics who have had the pleasure of being associated with professor papas either as students or as colleagues many of us continue to work in the many and diverse areas that modern electro magnetism encompasses there is however a common thread that was derived from our association with professor papas that has greatly influenced our thinking and technical style of expression professor papas from his studies at harvard brought with him to pasadena a very fundamental and classical point of view that was instilled in all those who were associated with him he saw research problems as a combination of fundamental physical and mathematical principles and the electromagnetic reality he searched and demanded clarity and often in the rather involved and engaging discussions which took place in his office he demanded that the baby picture be clearly drawn on the blackboard this requirement certainly for some of us who were working in widely varied subjects ranging from relativistic plasmas to almost periodic media has forced us to reexamine the

fundamentals the clear and lucid marriage of fundamental concepts to applications has been the trademark of professor papas s intellectual tradition and has greatly influenced the thinking of all of those who have associated with him

Electromagnetic Theory

1986

first published in 1973 dr clemmow s introduction to electromagnetic theory provides a crisp and selective account of the subject it concentrates on field theory with the early development of maxwell s equations and omits extended descriptions of experimental phenomena and technical applications though without losing sight of the practical nature of the subject rationalized mks units are used and an awareness of orders of magnitude is fostered fields in media are discussed from both the macroscopic and microscopic points of view as befits a mainly theoretical treatment a knowledge of vector algebra and vector calculus is assumed the standard results required being summarized in an appendix other comparatively advanced mathematical techniques such as tensors and those involving legendre or bessel functions are avoided problems for solution some 180 in all are given at the end of each chapter

Electromagnetic Theory

2003

this textbook is intended for undergraduate and graduate students taking an intermediate or advanced course in electromagnetism it presents electromagnetism as a classical theory based like mechanics on principles that are independent of the atomic constitution of matter this book is unique amongst electrodynamics texts in its treatment of the precise manner in which electromagnetism is linked to mechanics and thermodynamics thus a clear distinction is maintained between such concepts as field and force or radiation and heat applications include radiation from charged particles electromagnetic wave propagation and guided waves thermoelectricity magnetohydrodynamics piezoelectricity ferroelectricity paramagnetic cooling ferromagnetism and superconductivity there are 225 worked examples of dynamical and thermal effects of electromagnetic fields and of effects resulting from the motion of bodies the concise methodological approach of this book will be valuable to students and will make it of special interest to tutors and lecturers

Electromagnetic Theory

1893

advanced electromagnetism foundations theory and applications treats what is conventionally called electromagnetism or maxwell s theory within the context of gauge theory or yang mills theory a major theme of this book is that fields are not stand alone entities but are defined by their boundary conditions the book has practical relevance to efficient antenna design the understanding of forces and stresses in high energy pulses

ring laser gyros high speed computer logic elements efficient transfer of power parametric conversion and many other devices and systems conventional electromagnetism is shown to be an underdeveloped rather than a completely developed field of endeavor with major challenges in development still to be met

Recent Advances in Electromagnetic Theory

2012-12-06

unique multi level textbook is adaptable to introductory intermediate and advanced levels this revolutionary textbook takes a unique approach to electromagnetic theory comparing both conventional and modern theories it explores both the maxwell poynting representation as well as the alternate representation which the author demonstrates is generally simpler and more suitable for analyzing modern electromagnetic environments throughout the text students and researchers have the opportunity to examine both of these theories and discover how each one can be applied to solve problems the text is divided into four parts part i basic electromagnetic theory includes maxwell s equations quasistatics power and energy stress and momentum and electromagnetic wave theorems and principles part ii four dimensional electromagnetism includes four dimensional vectors and tensors and energy momentum tensors part iii electromagnetic examples includes statics and quasistatics accelerating charges plane waves transmission lines waveguides antennas and diffraction and ferrites part iv backmatter includes a summary appendices and references designed to accommodate a broad range of interests and backgrounds the text s companion dvd enables readers to reconfigure the material as an introductory intermediate or advanced level text moreover the text and its dvd offer a broad range of features that make it possible for readers to quickly grasp new concepts and apply them in practice practice problems provide the opportunity to solve real world problems using electromagnetic theory forty animations illustrate electric and magnetic field transients line drawings and computer generated mathematical figures clarify complex concepts and procedures maxima a powerful symbolic mathematics program helps readers explore four dimensional electromagnetic theory as well as perform numerical and graphical analyses adaptable to multiple levels this text can be used for both undergraduate and graduate coursework it is also recommended as a reference for researchers in such fields as electrical engineering laser physics materials science and biomedical engineering

Clerk Maxwell's Electromagnetic Theory

1923

this comprehensive introduction to classical electromagnetic theory covers the major aspects including scalar fields vectors laws of ohm joule coulomb faraday maxwell s equation and more with numerous diagrams and illustrations

The Principles of Electromagnetic Theory

1990-08-30

this is a textbook on electromagnetics for undergraduate students in electrical engineering information and communications the book contents are very compact and brief compared to other commonly known electromagnetic books for undergraduate students and emphasizes mathematical aspects of basic electromagnetic theory the book presents basic electromagnetic theory starting from static fields to time varying fields topics are divided into static electric fields static magnetic fields time varying fields and electromagnetic waves the goal of this textbook is to lead students away from memorization but towards a deeper understanding of formulas that are used in electromagnetic theory many formulas commonly used for electromagnetic analysis are mathematically derived from a few empirical laws physical interpretations of formulas are de emphasized each important formula is framed to indicate its significance primary theory of electromagnetics shows a clear and rigorous account of formulas in a consistent manner thus letting students understand how electromagnetic formulas are related to each other

An Introduction to Electromagnetic Theory

1973-10-25

this self contained book gives fundamental knowledge about scattering and diffraction of electromagnetic waves and fills the gap between general electromagnetic theory courses and collections of engineering formulas the book is a tutorial for advanced students learning the mathematics and physics of electromagnetic scattering and curious to know how engineering concepts and techniques relate to the foundations of electromagnetics

Electromagnetic Theory

1962

this book systematically introduces electromagnetic theories and their applications in practice electrostatic energy poynting theorem the polarization of waves the conservation law the electromagnetic symmetry the conformal mapping method the electromagnetic loss the parameters and theorems of electromagnetic theories are discussed in detail making the book an essential reference for researchers and engineers in electromagnetics field

Elementary Electromagnetic Theory: Maxwell's equations and their consequences

1971

handy reference for engineers and physicists this ieee reprinting of the classic text provides a deep fundamental understanding of electromagnetics providing a pertinent historical overview for each chapter it shows how special relativity is used to develop a complete electromagnetic theory from coulomb s law electromagnetics also contains many applications for the chapters covering electrostatics magnetostatics

electrodynamics while the final three chapters of the book extend the electromagnetic theory to dielectric magnetic and conducting materials

Elementary Electromagnetic Theory

1973

this book presents the theory of electromagnetic em waves for upper undergraduate graduate and phd level students in engineering it focuses on physics and microwave theory based on maxwell s equations and the boundary conditions important for studying the operation of waveguides and resonators in a wide frequency range namely from approx 10^9 to 10^{16} hertz the author also highlights various current topics in em field theory such as plasmonic comprising a noble metal waveguides and analyses of attenuations by filled waveguide dielectrics or semiconductors and also by conducting waveguide walls featuring a wide variety of illustrations the book presents the calculated and schematic distributions of em fields and currents in waveguides and resonators further test questions are presented at the end of each chapter

Electromagnetic Theory

2000

interfacing physics and electrical engineering this graduate level text reveals the inherent simplicity of the basic ideas of electromagnetic wave propagation and antennas and their logical development from maxwell field equations topics include radiation from monochromatic sources in unbounded regions electromagnetic waves in a plasma medium doppler effect much more 1965 edition

Advanced Electromagnetism

1995

electrical engineering electromagnetics singular electromagnetic fields and sources a volume in the iee series on electromagnetic wave theory donald d dudley series editor i will cherish my copy of this gem james r wait this is a companion volume to the many available graduate textbooks on electromagnetic theory it is devoted to a study of the infinities in electromagnetic fields and in their sources three types of singularities are investigated 1 those associated with strongly concentrated sources of charge and current the relevant densities are expressed in terms of delta functions and derivatives 2 those associated with the fields resulting from strongly concentrated sources 3 those which occur at sharp edges and vertices of cones and sectors the approach is both theoretical and numerical the information presented far from being purely formal is of importance for practical work it can be used for example to accelerate significantly the convergence of a numerical algorithm the book is written for electrical engineers and applied physicists who have an interest in the general topic of maxwell s equations and more particularly for those who are engaged in the actual solution of electromagnetic problems the mathematical level of the text is that of the applied mathematician an introductory chapter on

distribution theory has been written in that spirit also in the series mathematical foundations for electromagnetic theory donald d dudley university of arizona tucson 1994 hardcover 256 pp methods for electromagnetic field analysis ismo v lindell helsinki university of technology 1992 hardcover 320 pp the transmission line modeling method tlm christos christopoulos university of nottingham 1995 hardcover 232 pp

The Power and Beauty of Electromagnetic Fields

2011-10-25

this book traces the development of maxwell s theory from his first thoughts on electromagnetism through to the completion of his influential treatise on electricity and magnetism and shows how this development was related not only to contemporary scientific events but also to maxwell s personal philosophy of science and life while primarily concerned with the endeavours and achievements of one individual scientist it also offers a stimulating and forceful challenge to the traditional historiography of 19th century physics as a whole of interest to undergraduate and postgraduate students of physics or history of science and teachers of physics at school college or university levels

Lectures on Electromagnetic Theory

1984

maxwell s equations have been the basis of electromagnetic theory for a century they were very successful in providing solutions with sinusoidal time variation but these solutions are outside the causality law and the conservation law for energy signal solutions which satisfy these two laws generally do not exist but can be obtained by adding a term for magnetic dipole currents to maxwell s equations such currents are caused by the rotation of magnetic dipoles ranging from the hydrogen atom to the magnetic compass needle many computer plots of the time variation of electric and magnetic field strengths excited by signals are given in this useful book

Elements of Electromagnetic Theory

1903

the wave concept iterative procedure wqip method has found an increasing number of users within electromagnetic theory and applications to planar circuits antennas and diffraction problems this book introduces in detail this new formulation of integral methods based on the use of a wave concept with two bounded operators and applications in a variety of domains in electromagnetics this approach presents a number of benefits over other integral methods including overcoming the problem of singularity and reduced computing time through the presentation of mathematical equations to characterize studied structures and explanation of the curves obtained via validated examples the authors provide a thorough background to electromagnetism as well as a professional reference to students and researchers

Basic Electromagnetic Theory

1969

Electromagnetic Fields and Waves

2012-03-08

Electromagnetic Theory for Engineering Applications

1964

Primary Theory of Electromagnetics

2013-08-31

Modern Electromagnetic Scattering Theory with Applications

2017-01-20

Electromagnetic Frontier Theory Exploration

2019-11-05

Electromagnetics

1993

Electromagnetic Theory and Plasmonics for Engineers

2019

Electromagnetic Theory

1969

Introduction to Electromagnetic Theory

2012-06-01

Theory of Electromagnetic Waves

1975

Elementary Electromagnetic Theory

1973

Intermediate Electromagnetic Theory

1973

Theory of Electromagnetic Wave Propagation

1988-01-01

Singular Electromagnetic Fields and Sources

1996-01-21

The Electromagnetic Field

2013-11-27

James Clerk Maxwell and the Theory of the Electromagnetic Field

1986

Basic Electromagnetic Theory

1972

Propagation of Electromagnetic Signals

1994

Foundations of Electromagnetic Theory

1979

The Wave Concept in Electromagnetism and Circuits

2016-08-29

Electromagnetic theory

1941

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