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bridging the gap between electric circuits and electromagnetics this text leads students from familiar concepts into more advanced topics and applications earlier and heavier emphasis on dynamics permits coverage of practical applications in communication systems radar optics and solid state computers coverage begins with transmission lines a natural bridge between familiar circuits material and new electromagnetics material unlike other texts relatively more time is spent on dynamics than statics allowing

coverage of applications of time varying fields in the first semester this text also covers optical fibres in wideband communication and optical imaging by mirrors and lenses

fundamentals of applied electromagnetics is intended for use in one or two semester courses in electromagnetics widely acclaimed both in the u s and abroad this authoritative text bridges the gap between circuits and electromagnetics material coverage begins with transmission lines leading students from familiar concepts into more advanced topics and applications a student friendly approach full colour figures and images and a set of interactive simulations will help students develop a deeper understanding of electromagnetic concepts and applications the full text downloaded to your computer with ebooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends ebooks are downloaded to your computer and accessible either offline through the bookshelf available as a free download available online and also via the ipad and android apps upon purchase you ll gain instant access to this ebook time limit the ebooks products do not have an expiry date you will continue to access your digital ebook products whilst you have your bookshelf installed

in this book experts from academia and industry present the latest advances in scientific theory relating to applied electromagnetics and examine current and emerging applications particularly within the fields of electronics communications and computer technology the book is based on presentations delivered at appeic 2014 the 1st applied electromagnetic international conference held in bandung indonesia in december 2014 the conference provided an ideal platform for researchers and specialists to deliver both theoretically and practically oriented contributions on a wide range of topics relevant to the theme of nurturing applied electromagnetics for human technology many novel aspects were addressed and the contributions selected for this book highlight the relevance of advances in applied electromagnetics to a variety of industrial engineering problems and identify exciting future directions for research

key benefit widely acclaimed both in the u s and abroad this reader friendly yet authoritative volume bridges the gap between circuits and new electromagnetics material ulaby begins coverage with transmission lines leading readers from familiar concepts into more advanced topics and applications key topics introduction waves and phasors transmission lines vector analysis electrostatics magnetostatics maxwell s equations for time varying fields plane wave propagation reflection transmission and waveguides radiation and antennas satellite communication systems and radar sensors market a useful reference for engineers

included topics electromagnetism and electrical engineering electromagnetic fields and their sources time varying currents and fields in conductors electromagnetic radiation i electromagnetic problems

this book commemorates four decades of research by professor magdy f iskander life fellow ieee on materials and devices for the radiation propagation scattering and applications of electromagnetic waves chiefly in the mhz thz frequency range as well on electromagnetics education this synopsis of applied electromagnetics stemming from the life and times of just one person is meant to inspire junior researchers and reinvigorate mid level researchers in the electromagnetics community the authors of this

book are internationally known researchers including 14 IEEE fellows who highlight interesting research and new directions in theoretical experimental and applied electromagnetics

this book commemorates five decades of research by professor magdy f iskander life fellow IEEE on materials and devices for the radiation propagation scattering and applications of electromagnetic waves chiefly in the MHz THz frequency range as well on electromagnetics education this synopsis of electromagnetics stemming from the life and times of just one person is meant to inspire junior researchers and reinvigorate mid level researchers in the electromagnetics community the authors of this book are internationally known researchers including 12 IEEE fellows who highlight interesting research and new directions in theoretical experimental and applied electromagnetics provides a single source reference to many of the most significant developments of the past 5 decades in theoretical experimental and applied electromagnetics offers readers in each sub discipline discussed current research trends the state of the art the chief tools needed in that area and the vision of a research leader for that area includes content of particular interest in antennas and propagation as well as microwave theory and techniques

for courses in electromagnetics bridging the gap between circuits and electromagnetics widely acclaimed in the field this authoritative text bridges the gap between circuits and electromagnetics material fundamentals of applied electromagnetics begins coverage with transmission lines leading students from familiar concepts into more advanced topics and applications the 8th edition builds on the core content and style of previous editions retaining the student friendly approach and hands on simulation modules that help students develop a deeper understanding of electromagnetic concepts and applications enhanced graphs and illustrations and an expanded scope of topics in the technology briefs establish additional bridges between electromagnetic fundamentals and their countless engineering and scientific applications

in this book experts from academia and industry present the latest advances in scientific theory relating to applied electromagnetics and examine current and emerging applications particularly within the fields of electronics communications and computer technology the book is based on presentations delivered at APEIC 2015 the 2nd applied electromagnetic international conference held in Krabi Thailand in December 2015 the conference provided an ideal platform for researchers and specialists to deliver both theoretically and practically oriented contributions on a wide range of topics relevant to the theme of nurturing applied electromagnetics for human technology many novel aspects were addressed and the contributions selected for this book highlight the relevance of advances in applied electromagnetics to a variety of industrial engineering problems and identify exciting future directions for research

this text which introduces electromagnetism to students of electrical electronic engineering applied physics emphasizes physical processes the development of models for these processes their use in the study of engineering problems mathematical techniques are introduced gradually methodically the first section of the text covers basic electrostatics magnetostatics develops the framework within which a vast area of applications are treated in part two this second section deals with situations where the

couplings between electric magnetic fields cannot be ignored part three covers composite dielectrics stress control actuators classification of machine types description of circuit components throughout a major effort has been made to help students relate mathematical formalism to physical ideas practical systems several solid examples are given followed by problems answers

this book presents practical and relevant technological information about electromagnetic properties of materials and their applications it is aimed at senior undergraduate and graduate students in materials science and is the product of many years of teaching basic and applied electromagnetism topics range from the spectroscopy and characterization of dielectrics to non linear effects to ion beam applications in materials

this publication covers topics in the area of applied electromagnetics and mechanics since starting in japan in 1988 the isem has become a well known international forum on applied electromagnetics

electromagnetic theory has been a basic subject taught for more than a century to physics students but not to the electrical engineering student before the second world war the engineer was well grounded in circuit theory but was notoriously weak in field theory by and large he might have heard of maxwell s equations but he certainly did not use them since the second world war many factors have greatly changed the engineer s outlook particularly the astonishing advances in electronics in communications particularly microwaves and more recently in solid state devices consequently a basic course in electromagnetics and applications has been included in most first degree courses in electrical and electronic engineering since about 1950 the many earlier excellent texts available were unsuitable for engineering courses in electromagnetics for two reasons first they had been written from the point of view of the physicist being more concerned with basic principles than with applications second the introduction of si rationalised mks units meant that these earlier texts needed to be revised consequently the new texts in this subject have been in the main written by and for electrical engineers as examples see the books by skilling cullwick carter hayt and lorrain and corson these excellent texts have been found too advanced and too lengthy for the short time allocated to electromagnetism at nottingham that is about fifteen lecture hours in the first year and about twenty in the second year

modern technology is rapidly developing and for this reason future engineers need to acquire advanced knowledge in science and technology including electromagnetic phenomena this book is a contemporary text of a one semester course for junior electrical engineering students it covers a broad spectrum of electromagnetic phenomena such as surface waves plasmas photonic crystals negative refraction as well as related materials including superconductors in addition the text brings together electromagnetism and optics as the majority of texts discuss electromagnetism disconnected from optics in contrast in this book both are discussed seven labs have been developed to accompany the material of the book

the proceedings of this international symposium focus on recent advances and current research in the study of electromagnetic phenomena in advanced materials and the potential applications of such research in a variety of areas including non destructive

testing steel making and nuclear and electrical engineering also discussed is the effect of electromagnetic fields on the micro and macromechanics of solid materials and the application of electromagnetics to the preparation and characterization of new superconducting materials this is a valuable account of current research in an increasingly topical area which will be of interest to materials scientists working on advanced materials and to electrical mechanical and nuclear engineers interested in the application of electromagnetic forces in industry

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