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solve a problem beginners lack the expertise required to understand highly specialized
treatments of individual topics this is especially problematic for a field as broad as
electromagnetics which propagates into many diverse engineering fields the time h

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particularly as the topic relates to the fast moving continually evolving and rapidly expanding
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engineers do not have the time to wade through rigorously theoretical books when trying to solve a problem beginners lack the expertise required to understand highly specialized treatments of individual topics this is especially problematic for a field as broad as electromagnetics which propagates into many diverse engineering fields the time has come to find a middle ground the handbook of engineering electromagnetics links theory to specific applications with an integrated approach to areas such as wireless communications fiber optics microwaves radar materials science and even biomedical engineering this book not only provides the necessary formulas figures and tables but also the underlying theory and insight needed to formulate and solve real world engineering problems a team of international experts discusses fundamental concepts such as maxwell equations static fields electromagnetic induction transmission lines waveguides and electromagnetic compatibility they also explore specific technologies various numerical techniques used for computer aided solutions

biological effects and safety standards biomedical applications and measuring electromagnetic properties of biological materials with tables and graphs integrated into the discussion each chapter is a nearly self contained oasis of practical and theoretical problem solving information for individual applications with references directing you to more in depth information appendices provide brief compilations of key constants and units as well as a tutorial on vector analysis and coordinate systems

electromagnetic fields both static and dynamic form the foundational basis of all electrical and electronic engineering devices and systems aimed at undergraduate students university teachers design and consultant engineers and researchers this book presents an in depth simple and comprehensive reference source on electromagnetics engineering in much of electrical and electronics engineering including analogue and digital telecommunications engineering biomedical monitoring and diagnostic equipment power systems engineering and sensor technology getting back to the fundamental principles that govern the technologies namely electromagnetic fields and waves has become crucial for future customer friendly technology and systems electromagnetics engineering handbook has been written to enable undergraduate students studying electromagnetics engineering for the first time to gain an understanding of the essentials of the largely invisible but powerful electromagnetic fields governed by the four elegant maxwell s equations moreover the book helps to apply that knowledge through analytical and computational solutions of these frequency and material dependent electric and magnetic fields as electrical and electronic engineering grows and subdivides into many specialities this book aims to inform the reader of the basic principles that govern all of these specialised systems and on how to apply that knowledge to understand and design devices and systems that may operate at vastly different frequencies and in various media e g semiconductor materials magnetic materials biological tissues outer space and sea water it also deals with a range of different functions dependant on the area of application for example at very low power frequencies electromagnetic fields perform vastly

different functions from device to device such as in power transformers current transformers infrared sensors synchronous generators superconducting devices electric motors and electric powered transport systems this handbook will be of great help to students engineers innovators and researchers working in a wide variety of disciplines

this book explores key techniques and methods in electromagnetic compatibility management analysis design improvement and test verification for spacecraft the first part introduces the general emc technology of spacecraft the electromagnetic interference control method and management of electromagnetic compatibility the second part discusses the emc prediction analysis technique and its application in spacecraft while the third presents the emc design of spacecraft modules and typical equipment the final two parts address spacecraft magnetic design testing technologies and spacecraft testing technologies the book also covers the program control test process the special power control unit pcu electric propulsion pim test and multipaction testing for spacecraft making it a valuable resource for researchers and engineers alike

applied electromagnetics and electromagnetic compatibility deals with radio frequency interference rfi which is the reception of undesired radio signals originating from digital electronics and electronic equipment with today s rapid development of radio communication these undesired signals as well as signals due to natural phenomena such as lightning sparking and others are becoming increasingly important in the general area of electromagnetic compatibility emc emc can be defined as the capability of some electronic equipment or system to be operated at desired levels of performance in a given electromagnetic environment without generating em emissions unacceptable to other systems operating in the vicinity

this book offers a much needed practical guide to characterizing difficulties met by designers of electro optical current devices such as lasers laser diodes and photodiodes and advanced

optical devices such as avalanche and erbium diodes to overcome drawbacks associated with optical communication links wireless for lidar applications and wired for fiber optical communication all these drawbacks suffer from various types of noises inside each element of the devices under analysis and the corresponding fading phenomenon when various types of optical signals with information data transverse these channels it will appeal to undergraduate and postgraduate students and professionals dealing with optical communication and the design of electro optic devices the book explores the theoretical background and practical aspects both when optical signals propagate through a wireless channel for lidar atmospheric applications and when they propagate through an optical fiber

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