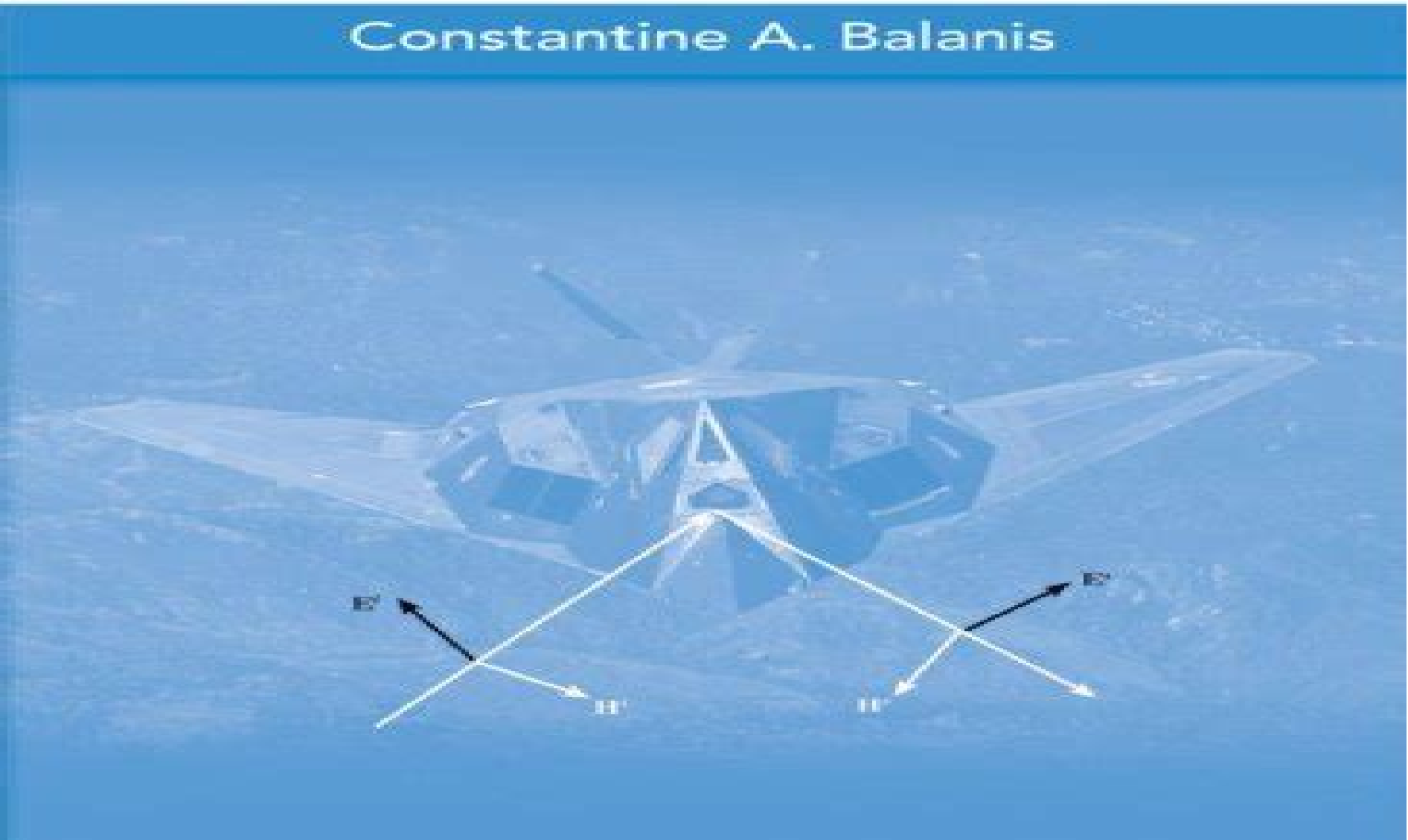


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Metasurface-driven Electronic Warfare Rafael Goncalves Licursi de Mello, 2024-12-10 Understand the metasurface revolution in electronic warfare Electronic warfare EW ensures safe usage of the electromagnetic spectrum by one s own forces while denying it to adversaries Modern warfare is an extraordinarily fluid and dynamic activity with numerous involved systems reconfigurable at the front or back ends Metasurfaces however are artificially engineered surfaces that promise to take this dynamism to unprecedented levels by

making platforms aircraft vessels etc and the environment itself reconfigurable a revolution that even major EW authorities have yet to fully comprehend Metasurface driven Electronic Warfare outlines the parameters of this revolution and its transformative potential in the EW space Beginning with a historical overview of EW dynamism it then provides the electromagnetic basics to understand metasurfaces their operation mechanisms and capacity for shaping electromagnetic waves A series of detailed studies of metasurface applications in EW makes this an indispensable guide to an increasingly dynamic battlefield Readers will also find Clear cost benefit analyses of metasurface substitutions in modern EW scenarios Detailed discussion of metasurface applications including stealth electronic support electronic attack electronic protection their use in drone swarms smart environments and more Simulations of EW scenarios with accompanying MATLAB codes and exercises Metasurface driven Electronic Warfare is ideal for EW analysts specialists and operators as well as signals intelligence and electrical engineering researchers and students Because it covers the essentials in both areas the book is also appropriate to support graduate courses on metasurfaces or EW

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Constantine A. Balanis, 2012-04-13 Balanis new edition of Advanced Engineering and Electromagnetics features new content on the basics of Metamaterials including figures to demonstrate their properties Several small sections have been added on Mie series scattering by a PEC sphere wedge diffraction by a wedge with surface impedances and curve surface diffraction Throughout the book there are more helpful examples end of chapter problems and references as well as lecture notes in PowerPoint format The revised edition also features MATLAB programs to animate some of the wave phenomena such as propagation reflection and refraction by planar interfaces scattering by PEC circular cylinder dielectric circular cylinder dielectric coated PEC circular cylinder and PEC sphere and wedge defraction by 2 D PEC wedge

Engineering

Electromagnetics Explained Lakshman Kalyan, 2025-02-20 Engineering Electromagnetics Explained is a comprehensive textbook designed to provide students with a solid foundation in the principles and applications of electromagnetics Written by leading experts this book covers fundamental concepts theoretical frameworks and practical applications in engineering We start with basic principles of electromagnetism including Coulomb s Law Gauss s Law and Maxwell s Equations then delve into advanced topics such as electromagnetic waves transmission lines waveguides antennas and electromagnetic compatibility EMC Key Features Clear and concise explanations of fundamental electromagnetics concepts Numerous examples and illustrations to aid understanding Practical applications and real world examples demonstrating electromagnetics relevance in engineering Comprehensive coverage of topics including transmission lines waveguides antennas and EMC End of chapter problems and exercises to reinforce learning This textbook is suitable for undergraduate and graduate students in electrical engineering electronics and communication engineering and related disciplines It serves as an essential resource for courses on electromagnetics electromagnetic field theory and electromagnetic compatibility Additionally practicing engineers and researchers will find this book a valuable reference for understanding and applying

electromagnetics principles in their work **Surface Electromagnetics** Fan Yang, Yahya Rahmat-Samii, 2019-06-20 Provides systematic coverage of the theory physics functional designs and engineering applications of advanced electromagnetic surfaces **Electromagnetics Engineering Handbook** Paul R. P. Hoole, Paul Ratnamahilan P. Hoole, K. Pirapaharan, S. R. H. Hoole, 2013 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 *Advanced Engineering Electromagnetics, 2nd Edition Wiley E-Text Reg Card* Balanis, 2013-01-23 **Applied Electromagnetics and Electromagnetic Compatibility** Dipak L. Sengupta, Valdis V. Liepa, 2005-11-14 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 Electro Magnetic 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 **Electromagnetic Waves, Materials, and Computation with MATLAB®** Dikshitulu K. Kalluri, 2016-04-19 Readily available commercial software

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