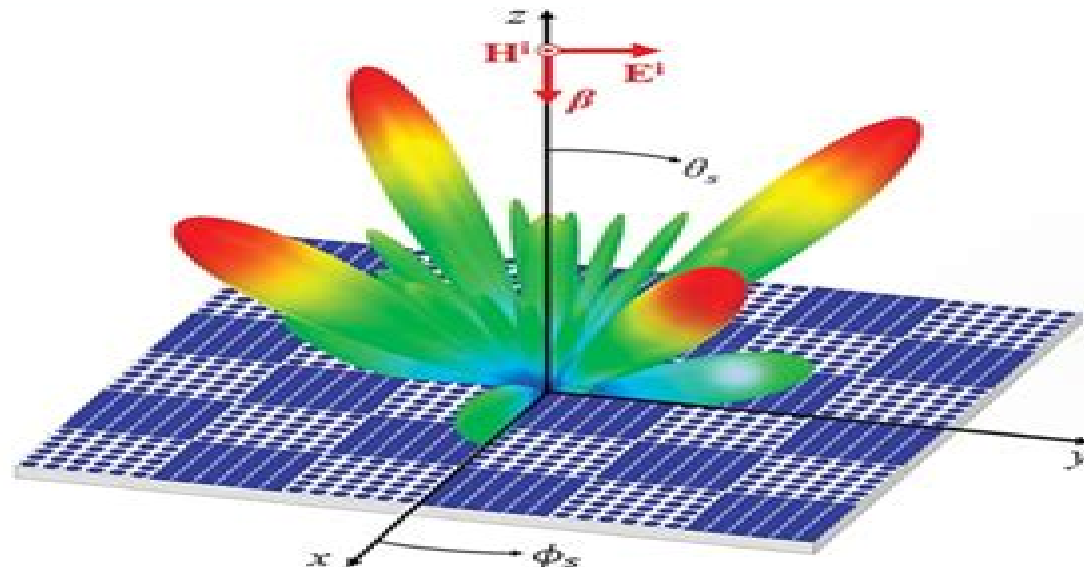


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textbook aims to fully immerse senior undergraduates graduates and research professionals in the fundamental knowledge necessary for acquiring a more advanced awareness of concepts and pushing the field beyond its current boundaries The authors furnish readers with a pragmatic quantitative and systematic view of biophotonics engaging such topics as light tissue interaction the use of optical instrumentation and formulating new methods for performing analysis Designed for use in classroom lectures seminars or professional laboratories the inclusion and incorporation of this textbook can greatly benefit readers as it serves as a comprehensive introduction to current optical techniques used in biomedical applications Caters to the needs of graduate and undergraduate students as well as R D professionals engaged in biophotonics research Guides readers in the field of biophotonics beginning with basic concepts before proceeding to more advanced topics and applications Serves as a primary text for attaining an in depth systematic view of principles and applications related to biophotonics Presents a quantitative overview of the fundamentals of biophotonic technologies Equips readers to apply fundamentals to practical aspects of biophotonics

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Electromagnetics and Antenna Technology Alan J. Fenn, 2017-12-31 Written by a leading expert in the field this practical new resource presents the fundamentals of electromagnetics and antenna technology This book covers the design electromagnetic simulation fabrication and measurements for various types of antennas including impedance matching techniques and beamforming for ultrawideband dipoles monopoles loops vector sensors for direction finding HF curtain arrays 3D printed nonplanar patch antenna arrays waveguides for portable radar reflector antennas and other antennas It explores the essentials of phased array antennas and includes detailed derivations of important field equations and a detailed formulation of the method of moments This resource exhibits essential derivations of equations providing readers with a strong foundation of the underpinnings of electromagnetics and antennas It includes a complete chapter on the details of antenna and electromagnetic test and measurement This book explores details on 3D printed non planar circular patch array antenna technology and the design and analysis of a planar array fed axisymmetric gregorian reflector The lumped element impedance matched antennas are examined and include a look at an analytic impedance matching

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Selected Asymptotic Methods with Applications to Electromagnetics and Antennas George Fikioris, Ioannis Tastsoglou, Odysseas N. Bakas, 2022-06-01 This book describes and illustrates the application of several asymptotic methods that have proved useful in the authors research in electromagnetics and antennas We first define asymptotic approximations and expansions and explain these concepts in detail We then develop certain prerequisites from complex analysis such as power series multivalued functions including the concepts of branch points and branch cuts and the all important gamma function Of particular importance is the idea of analytic continuation of functions of a single complex variable our discussions here include some recent direct applications to antennas and computational electromagnetics Then specific methods are discussed These include integration by parts and the Riemann Lebesgue lemma the use of contour integration in conjunction with other methods techniques related to Laplace s method and Watson s lemma the asymptotic behavior of certain Fourier sine and cosine transforms and the Poisson summation formula including its version for finite sums Often underutilized in the literature are asymptotic techniques based on the Mellin transform our treatment of this subject complements the techniques presented in our recent Synthesis Lecture on the exact not asymptotic evaluation of integrals

Computational Methods for Electromagnetic and Optical Systems John M. Jarem, Partha P. Banerjee, 2016-04-19 The current rapid and complex advancement applications of electromagnetic EM and optical systems calls for a much needed update on the computational methods currently in use Completely revised and reflecting ten years of developments this second edition of the bestselling Computational Methods for Electromagnetic and Optical Systems provides the update so desperately needed in this field Offering a wealth of new material this second edition begins with scalar wave propagation and analysis techniques chiral and metamaterials and photonic band gap structures It examines Poynting vector and stored energy as well as energy group and phase velocities reviews k space state variable formation with applications to anisotropic planar systems and presents full field rigorous coupled wave analysis of planar diffraction gratings with applications to H mode E mode crossed gratings single and multilayered diffraction grating analysis and diffraction from anisotropic gratings Later chapters highlight spectral techniques and RCWA as applied to the analysis of dynamic wave mixing in PR materials with induced transmission and reflection gratings and demonstrate the RCWA algorithm to analyze cylindrical and spherical systems using circular bipolar cylindrical and spherical coordinates The book concludes with several RCWA computational case studies involving scattering from spatially inhomogeneous eccentric circular cylinders solved in bipolar coordinates Many of these examples apply the complex Poynting theorem or the forward scattering optical theorem to validate numerical solutions by verifying power conservation Using common computational tools such as Fortran MATLAB COMSOL and RSOFT the text offers numerous examples to illuminate the material many of which employ a full field vector approach to analyze and solve Maxwell s equations in anisotropic media where a standard wave equation approach is

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