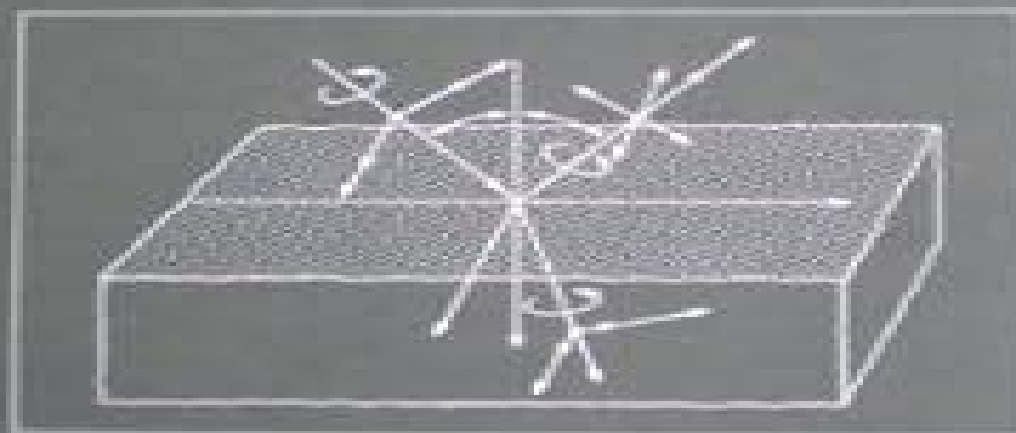


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Selected Asymptotic Methods with Applications to Electromagnetics and Antennas George Fikioris, Ioannis Tastsoglou, Odysseas N. Bakas, 2022-06-01 This book describes and illustrates the application of several asymptotic methods that have proved useful 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

Introduction to Microwave Imaging Natalia K. Nikolova, 2017-07-13 A one stop tutorial for beginners covering the fundamentals of microwave imaging including application examples and practical exercises

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Engineering Electromagnetics Balanis, Constantine A. Balanis, 1989-10-24 **Approximations and Numerical Methods for the Solution of Maxwell's Equations** F. El Dabaghi, 1998 This book was written in response to the increasing interest in the high frequency numerical solution of Maxwell's equations Research activity in this area has been stimulated by requirements for greater precision in radar cross section calculations particularly for geometries with low observability however there are also a growing number of applications in bio electromagnetism and electromagnetic compatibility It is hoped that these proceedings will be of interest both to specialists in this area as well as to others simply looking for a guide to recent developments

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