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## From Analytic to Numerical Electromagnetics: Contributions by C. Yeh and His Collaborators (Hardback)

By C Yeh

California Advanced Studies Press, 2016. Hardback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Based on the properly organized reprints by C. Yeh and his collaborators, innovative and original solutions to a number of fundamental problems in electromagnetics, essential to the teaching and research in modern electromagnetics are presented in From Analytic to Numerical Electromagnetics. The wide range of coverage from general applied electromagnetic theory (new derivation of boundary conditions, conditions for scalar wave approximation, completeness of the far-zone data, correct power loss calculation, limitation of directional coupler theory, calculation of noise temperature of a lossy plate) to the pioneering development of numerical methods to solve complex electromagnetic problems and to the more exotic but fundamental topics (canonical solutions for elliptic, parabolic, or spherical dielectric structures, waves in periodic media, focused beam scattering, relativistically moving media, terahertz low-loss waveguides, WDM optical fiber solitons, particle radiation in complex media), offers a rare in-depth look in modern electromagnetics. Readers will find the subjects covered in this book to be particularly useful as a supplement to a standard advanced textbook on electromagnetics. Researchers and engineers involved in optical communications, optical solitons, plasmonics, metamaterial or nano waveguides, terahertz technology, numerical...



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