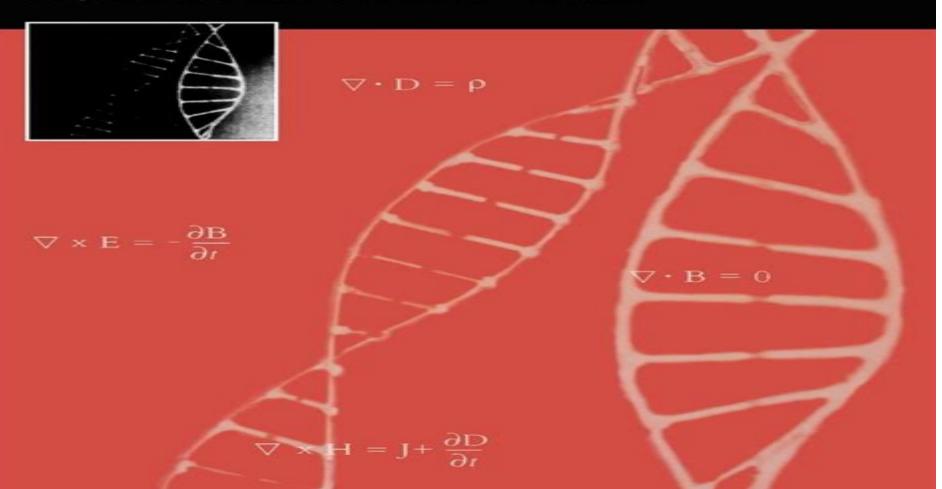
Electromagnetic Optimization by Genetic Algorithms

Edited by Yahya Rahmat-Samii and Eric Michielssen



Kyohei Fujimoto, Hisashi Morishita

Electromagnetic Optimization by Genetic Algorithms Yahya Rahmat-Samii, Eric Michielssen, 1999-07-23 Authoritative coverage of a revolutionary technique for overcoming problems in electromagnetic design Genetic algorithms are stochastic search procedures modeled on the Darwinian concepts of natural selection and evolution The machinery of genetic algorithms utilizes an optimization methodology that allows a global search of the cost surface via statistical random processes dictated by the Darwinian evolutionary concept These easily programmed and readily implemented procedures robustly locate extrema of highly multimodal functions and therefore are particularly well suited to finding solutions to a broad range of electromagnetic optimization problems Electromagnetic Optimization by Genetic Algorithms is the first book devoted exclusively to the application of genetic algorithms to electromagnetic device design Compiled by two highly competent and well respected members of the electromagnetics community this book describes numerous applications of genetic algorithms to the design and optimization of various low and high frequency electromagnetic components Special features include Introduction by David E Goldberg A Meditation on the Application of Genetic Algorithms Design of linear and planar arrays using genetic algorithms Application of genetic algorithms to the design of broadband wire and integrated antennas Genetic algorithm driven design of dielectric gratings and frequency selective surfaces Synthesis of magnetostatic devices using genetic algorithms Application of genetic algorithms to multiobjective electromagnetic backscattering optimization A comprehensive list of the up to date references applicable to electromagnetic design problems Supplemented with more than 250 illustrations Electromagnetic Optimization by Genetic Algorithms is a powerful resource for electrical engineers interested in modern electromagnetic designs and an indispensable reference for university researchers

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Hoefer Space and time discretizing time domain methods for electromagnetic full wave simulation have emerged as key numerical methods in computational electromagnetics Time domain methods are versatile and can be applied to the solution of a wide range of electromagnetic field problems Computing the response of an electromagnetic structure to an impulsive excitation localized in space and time provides a comprehensive characterization of the electromagnetic properties of the structure in a wide frequency range The most important methods are the Finite Difference Time Domain FDTD and the Transmission Line Matrix TLM methods The contributions represent the state of the art in dealing with time domain methods in modern engineering electrodynamics for electromagnetic modeling in general the Transmission Line Matrix TLM method the application of network concepts to electromagnetic field modeling circuit and system applications and finally with broadband devices systems and measurement techniques Modern Small Antennas Kyohei Fujimoto, Hisashi Morishita, 2014-01-09 If you are involved in designing and developing small antennas this complete cutting edge guide covers everything you need to know From fundamentals and basic theory to design optimization evaluation measurements and simulation techniques all the essential information is included You will also get many practical examples from a range of wireless systems whilst a glossary is provided to bring you up to speed on the latest terminology A wide variety of small antennas is covered and design and practice steps are described for each type electrically small functionally small physically constrained small and physically small Whether you are a professional in industry a researcher or a graduate student this is Electromagnetic Shielding Salvatore Celozzi, Rodolfo Araneo, Giampiero your essential guide to small antennas Lovat, 2008-04-18 This reference provides a survey of options for the reduction of the electromagnetic field levels in prescribed areas This is a resource for practicing telecommunications and electrical engineers as well as researchers in industry and academia who are involved in the design and analysis of electromagnetic shielding structures Jacket

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