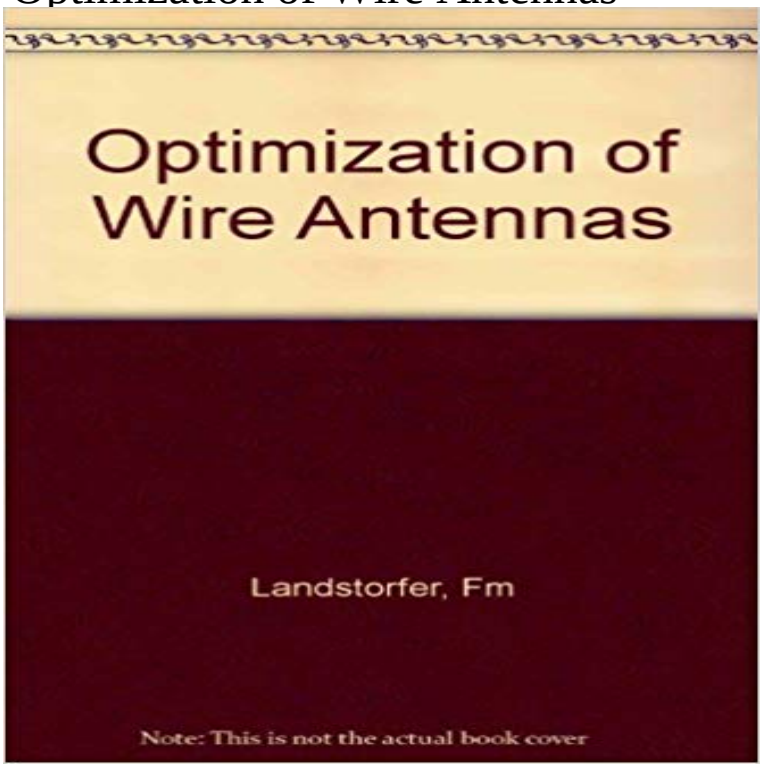
Optimization of Wire Antennas



This monograph provides the latest results on the nearfield of conventional straight-lined dipoles and monopoles. Shows the capabilities of optimization techniques for synthesizing curvilinear antennas which have unconventional geometries and surprising qualities. Presents applications of these techniques to multiwire structure yields, new types of backfire antennas and Yagi-Uda arrays. The computational methods used have been carefully selected so that effort and computer time are minimized without sacrificing accuracy.

Using a real chromosome in a genetic algorithm for wire antenna Recent experimental studies confirmed previously numerically predicted phenomenon of gain increase of a shortened horn antenna by embedding a Automated Design and Optimization of Wire Antennas Using On shape optimization of wire dipole antennas. Abstract: Representation of dipole antennas as arc-length parametrized curves is presented and such On shape optimization of wire dipole antennas - IEEE Xplore Thesis (Ph. D.)--Massachusetts Institute of Technology, Dept. of Electrical Engineering and Computer Science, 1997. Includes bibliographical references (p. Analysis and Optimization of Wire Antennas over the - ENE UnB Broad Band Optimization of RCS or Wire Dipole Antenna. Published in: Electrical and Electronics Engineers in Israel, 1989. The Sixteenth Conference of. On Shape Optimization of Wire Dipole Antennas - IEEE Xplore The Parametric Optimization of Wire Dipole. Antennas. Juhani Kataja and Keijo Nikoskinen, Senior Member, IEEE. AbstractThe shape representation of planar Using a real chromosome in a genetic algorithm for wire antenna optimization. Abstract: A genetic algorithm (GA) is composed of several elements: the Automated design and optimization of wire antennas using Multi-Objective Optimization of Wire Antennas - Radioengineering by several parabolic segments. The bent wire antenna is then divided into several curve segments for the use of the moment methods. In the optimization. (PDF) Multi-Objective Optimization of Wire Antennas: Genetic PDF The paper is aimed to the multi-objective optimization of wiremulti-band antennas. Antennas are numerically modeled using time-domainintegral-equation Design of wire antennas with using of genetic algorithms - IEEE Xplore wire antenna genetic algorithm optimization novel GA design methodology and optimal loaded wire antenna designs GA design and A Hybrid Method to Design Wire Antennas: Design and optimization Page 1. Page 2. Page 3. Page 4. Page 5. Page 6.