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Genetic Algorithms in Electromagnetics-Rudy L. Haupt 2007-04-27 A thorough and insightful introduction to using genetic algorithms to optimize electromagnetic systems Genetic Algorithms in Electromagnetics focuses on optimizing the objective function when a computer algorithm, analytical model, or experimental result describes the performance of an electromagnetic system. It offers expert guidance to optimizing electromagnetic systems using genetic algorithms (GA), which have proven to be lusious in finding optimal results where traditional techniques fail. Genetic Algorithms in Electromagnetics begins with an introduction to optimization and several classical optimization techniques and gone on to feature: Introductions to GA and both binary and continuous variable forms, complete with examples of MATLAB® commands Two step-by-step examples of optimizing antenna arrays as well as a comprehensive overview of applications of GA to antenna array design problems Coverage of GA as an adaptive algorithm, including adaptive and smart arrays as well as adaptive reflectors and cross directed Explanations of the optimization of different size antennas, starting with the famous "crooked monopole" How to optimize horns, reflector, and microstrip patch antennas, which require significantly more computing power versus wire antennas Coverage GA optimization of scattering, including scattering from frequency selective surfaces and other composite structures The book also contains a CD-ROM with example programs, sample optimization results, and a novel application for test patterns.

Interference Mitigation and Energy Management in 5G Heterogeneous Cellular Networks-Yang Chunjing 2016-11-22 In recent years, wireless networks have become more ubiquitous and integrated into everyday life. As such, it is increasingly imperative to research new methods to boost cost-effectiveness for spectrum and antenna efficiency. Interference Mitigation and Energy Management in 5G Heterogeneous Cellular Networks is a pivotal reference source for the latest research in emerging network architectures and mitigation technology to enhance cellular network performance and efficiency. Featuring extensive coverage across a range of relevant perspectives and topics, such as interference alignment, resource allocation, and high-speed mobile environments, this book is ideally designed for engineers, professionals, practitioners, upper-level students, and academics seeking current research on interference and efficiency management for 5G heterogeneous cellular networks.

Phased Array Antenna Handbook-Robert J. Mailloux 2005-01-01 This thoroughly revised edition of the Artch House classic, Phased Array Antenna Handbook, offers the most up-to-date and broad view of array antennas and systems. Supported with over 350 equations and more than 270 illustrations, the book offers complete design details that allow practitioners to size an array system with speed and confidence.

Ultra-Wideband Short-Pulse Electromagnetics 2-Brett E. Baum 2007-12-05 The purpose of the Ultra-Wideband Short-Pulse Electromagnetics Conference series is to focus on advanced technologies for the generation, radiation and detection of ultra-wideband short pulses, taking into account their propagation and scattering from and coupling to targets of interest. This Conference series reports on developments in supporting mathematical and numerical methods and presents current and potential applications of the technology. Ultra-Wideband Short-Pulse Electromagnetics II is based on the American Electromagnetics 2006 conference held from June 7-8 in Albuquerque, New Mexico. Topical areas covered in this volume include pulse radiation and measurement, scattering theory, target detection and identification, antennas, signal processing, and communications.

Popular Science-2004-12 Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will make it better.

RF Wireless Energy Transfer in the Massiv IoT Era-Hirley Abous 2021-11-23 A deep dive into wireless energy transfer technologies for IoT networks to Wireless Energy Transfer: Towards Sustainable Zero-Energy IoT Networks, distinguished researchers Oual A. L. Lopez and Hirley Abous deliver a robust discussion of massive wireless energy transfer and zero-energy, low-cost, Internet of Things networks. Moving beyond the theoretical background of the subject, the authors offer a deep analysis of the scenarios and requirements of wireless energy transfer. The book details novel powering schemes recently proposed to face the challenging requirements of the future Internet of Things, as well as a comprehensive review of sustainable IoT wireless networks. Wireless Energy Transfer explains why novel energy efficient solutions will be needed to address the sheer volume of devices currently forecasted to be used in the near future. It explores the challenges that researchers and users will face as well as proposed solutions and future research directions. The authors also discuss: Through introductions to wireless energy transfer, including energy harvesting sources, radio frequency energy harvesting, wireless energy transfer power, and energy distribution, the book offers a comprehensive exploration of ambient radio frequency energy harvesting, including measurement campaigns, energy harvesting hardware prototypes, and performance analysis. It offers a detailed examination of practical issues, including antenna design, multi-antenna techniques, and distributed antenna systems. The book is designed to provide a clear introduction to wireless energy transfer and zero-energy IoT Networks. Wireless Energy Transfer also shows how these new IT technologies will integrate with Internet of Things network and applications.

IEEE Antennas and Propagation Magazine-Henrik Andersen 2013-10-21 "Microwave and Wireless Propagation for the Internet of Things" by Frank A. Sodano, Editor, IEEE Antennas and Propagation Magazine, 15(5), pp. 10-46: The Internet of Things has become more ubiquitous and is now a familiar concept for everyday life. For the past few years, this area has become an important research topic, especially for communications engineers and computer scientists. Most of the current Internet of Things devices are based on Low Power Wide Band (LPWB) communication standards such as WiFi, Bluetooth, and Zigbee. However, as the number of devices grows, the need for new systems is becoming evident. The Internet of Things has a significant impact on society and is providing solutions to many of today's global challenges, such as resource management, environmental monitoring, and health care. These systems have the potential to change society and modern technology, changing the way we live and work.

International Aerospace Abstracts-2005-(International Aerospace Abstracts) An International Journal of Aerospace Research, 43(11), pp. 1-38: Aerospace research and development are critical for the advancement of national defense, space exploration, and commercial transportation. Aerospace engineers study the aerodynamic behavior of objects in motion, such as aircraft, spacecraft, and missiles. Their research involves many disciplines, including aerodynamics, structure, propulsion, hydromechanics, and electronics. Aerospace engineers use mathematical models and computer simulations to predict the behavior of objects in flight, and they work closely with pilots, navigators, and flight test engineers to develop aircraft and spacecraft.

Advances in Electromagnetics-2011-01 "Ultra-Wideband Short-Pulse Electromagnetics" by Brett E. Baum, Editor, Advances in Electromagnetics, 43(2), pp. 1-92: Ultra-Wideband Short-Pulse Electromagnetics is a special section of Advances in Electromagnetics, the official journal of the International Union of Radio Science (URSI) Commission B. The section is dedicated to providing a comprehensive overview of the latest research and developments in ultra-wideband short-pulse electromagnetic research, including topics such as pulse generation, propagation, and detection.


Advances in Electromagnetics-2008-11 "Ultra-Wideband Short-Pulse Electromagnetics" by Brett E. Baum, Editor, Advances in Electromagnetics, 40(1), pp. 1-38: Ultra-Wideband Short-Pulse Electromagnetics is a special section of Advances in Electromagnetics, the official journal of the International Union of Radio Science (URSI) Commission B. The section is dedicated to providing a comprehensive overview of the latest research and developments in ultra-wideband short-pulse electromagnetic research, including topics such as pulse generation, propagation, and detection.
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