

THOMAS S. ANGELL
ANDREAS KIRSCH

Optimization Methods in Electromagnetic Radiation

Springer Monographs in Mathematics



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Optimization Methods In Electromagnetic Radiation

Valentine Korah

Optimization Methods In Electromagnetic Radiation:

Optimization Methods in Electromagnetic Radiation Thomas S. Angell,Andreas Kirsch,2006-05-11 The subject of antenna design primarily a discipline within electrical engineering is devoted to the manipulation of structural elements of and or the electrical currents present on a physical object capable of supporting such a current Almost as soon as one begins to look at the subject it becomes clear that there are interesting mathematical problems which need to be addressed in the first instance simply for the accurate modelling of the electromagnetic fields produced by an antenna The description of the electromagnetic fields depends on the physical structure and the background environment in which the device is to operate It is the coincidence of a class of practical engineering applications and the application of some interesting mathematical optimization techniques that is the motivation for the present book For this reason we have thought it worthwhile to collect some of the problems that have inspired our research in applied mathematics and to present them in such a way that they may appeal to two different audiences mathematicians who are experts in the theory of mathematical optimization and who are interested in a less familiar and important area of application and engineers who confronted with problems of increasing sophistication are interested in seeing a systematic mathematical approach to problems of interest to them We hope that we have found the right balance to be of interest to both audiences It is a difficult task Our ability to produce these devices at all most designed for a particular purpose leads quite soon to a desire to optimize the design in various ways The mathematical problems associated with attempts to optimize performance can become quite sophisticated even for simple physical structures

Proceedings of 2021 5th Chinese Conference on Swarm Intelligence and Cooperative Control Zhang Ren,Mengyi Wang,Yongzhao Hua,2022-07-29 This book includes original peer reviewed research papers from the 2021 5th Chinese Conference on Swarm Intelligence and Cooperative Control CCSICC2021 held in Shenzhen China on January 19 22 2022 The topics covered include but are not limited to reviews and discussions of swarm intelligence basic theories on swarm intelligence swarm communication and networking swarm perception awareness and location swarm decision and planning cooperative control cooperative guidance swarm simulation and assessment The papers showcased here share the latest findings on theories algorithms and applications in swarm intelligence and cooperative control making the book a valuable asset for researchers engineers and university students alike

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Mathematical Reviews ,2004

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Chou,Mihaela van der Schaar,Ronald Kitchen,Daniel M. Dobkin,Dan Bensky,Juanita Ellis,Charles Pursell,Joy Rahman,Stefan Parkvall,Leonidas Guibas,Feng Zhao,Johan Skold,Per Beming,Alan C. Bovik,Bruce A. Fette,Keith Jack,Farid Dowla,Casimer DeCusatis,2009-03-02 A one stop desk reference for R D engineers involved in communications engineering this book will not gather dust on the shelf It brings together the essential professional reference content from leading international contributors in the field Material covers a wide scope of topics including voice computer facsimile video and multimedia data technologies A hard working desk reference providing all the essential material needed by communications engineers on a day to day basis Fundamentals key techniques engineering best practice and rules of thumb together in one quick reference sourcebook Definitive content by the leading authors in the field Optimization Methods in Control of Electromagnetic Fields ,1991 This program is developing constructive methods for certain constrained optimization problems arising in the design and control of electromagnetic fields and in the identification of scattering objects The problems addressed fall into three categories 1 the design of antennas with optimal radiation characteristics measured in terms of directivity 2 the control of the electromagnetic scattering characteristics of an object in particular the minimization of its radar cross section by the choice of material properties and 3 the determination of the shape of scattering objects with various electromagnetic properties from scattered field data The main thrust of the program is toward the development of constructive methods based on the use of complete families of solutions of the time harmonic Maxwell equations in the infinite domain exterior to the radiating or scattering body During the course of the work an increasing amount of attention has been devoted to the use of iterative methods for the solution of various direct and inverse problems The continued investigation and development of these methods and their application in parameter identification has become a significant part of the program

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Table of Contents Optimization Methods In Electromagnetic Radiation

1. Understanding the eBook Optimization Methods In Electromagnetic Radiation
 - The Rise of Digital Reading Optimization Methods In Electromagnetic Radiation
 - Advantages of eBooks Over Traditional Books
2. Identifying Optimization Methods In Electromagnetic Radiation
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Optimization Methods In Electromagnetic Radiation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Optimization Methods In Electromagnetic Radiation

- Personalized Recommendations
- Optimization Methods In Electromagnetic Radiation User Reviews and Ratings
- Optimization Methods In Electromagnetic Radiation and Bestseller Lists

5. Accessing Optimization Methods In Electromagnetic Radiation Free and Paid eBooks

- Optimization Methods In Electromagnetic Radiation Public Domain eBooks
- Optimization Methods In Electromagnetic Radiation eBook Subscription Services
- Optimization Methods In Electromagnetic Radiation Budget-Friendly Options

6. Navigating Optimization Methods In Electromagnetic Radiation eBook Formats

- ePUB, PDF, MOBI, and More
- Optimization Methods In Electromagnetic Radiation Compatibility with Devices
- Optimization Methods In Electromagnetic Radiation Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Optimization Methods In Electromagnetic Radiation
- Highlighting and Note-Taking Optimization Methods In Electromagnetic Radiation
- Interactive Elements Optimization Methods In Electromagnetic Radiation

8. Staying Engaged with Optimization Methods In Electromagnetic Radiation

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Optimization Methods In Electromagnetic Radiation

9. Balancing eBooks and Physical Books Optimization Methods In Electromagnetic Radiation

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Optimization Methods In Electromagnetic Radiation

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Optimization Methods In Electromagnetic Radiation

- Setting Reading Goals Optimization Methods In Electromagnetic Radiation
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Optimization Methods In Electromagnetic Radiation

- Fact-Checking eBook Content of Optimization Methods In Electromagnetic Radiation
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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