



The Hong Kong University of Science and Technology

Department of Mathematics

Departmental Colloquium

**Solution, optimization and design methods for periodic
and non-periodic electromagnetic
metamaterial structures**

by

***Prof. Oscar P. Bruno
Caltech***

Abstract

This talk presents a variety of methodologies developed recently for the solution of Maxwell's equations, with application to the analysis, optimization, and design of periodic and non-periodic metamaterial structures. In particular, novel integral-equation solvers will be discussed which can rapidly produce accurate solutions to Maxwell's equations for general two- and three-dimensional structures. Associated optimization methods will be demonstrated. The Windowed Green Function method (WGF) and its powerful capabilities as a scattering isolator, with applications to multi-layered media, waveguiding problems, and periodic problems, will be presented. The difficulties arising from the existence of Wood anomalies in the context of periodic structures, which have previously hindered treatment of bi-periodic problems in three-dimensional space, will also be mentioned and addressed. The newest fast, three-dimensional Wood-anomaly-capable solvers will be described, and they will be demonstrated with a variety of numerical results.

Date: Wednesday, 6 June 2018
Time: 3:00p.m. - 4:00p.m.
Venue: Room 5508, Academic Building
(near Lifts 25&26), HKUST

All are welcome!

Colloquium Of Methods Of Optimization

**International conference on
computing methods in optimization
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Colloquium Of Methods Of Optimization:

This book delves into Colloquium Of Methods Of Optimization. Colloquium Of Methods Of Optimization is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Colloquium Of Methods Of Optimization, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Colloquium Of Methods Of Optimization
- Chapter 2: Essential Elements of Colloquium Of Methods Of Optimization
- Chapter 3: Colloquium Of Methods Of Optimization in Everyday Life
- Chapter 4: Colloquium Of Methods Of Optimization in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Colloquium Of Methods Of Optimization. The first chapter will explore what Colloquium Of Methods Of Optimization is, why Colloquium Of Methods Of Optimization is vital, and how to effectively learn about Colloquium Of Methods Of Optimization.

3. In chapter 2, this book will delve into the foundational concepts of Colloquium Of Methods Of Optimization. This chapter will elucidate the essential principles that must be understood to grasp Colloquium Of Methods Of Optimization in its entirety.

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5. In chapter 4, this book will scrutinize the relevance of Colloquium Of Methods Of Optimization in specific contexts. This chapter will explore how Colloquium Of Methods Of Optimization is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Colloquium Of Methods Of Optimization. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Colloquium Of Methods Of Optimization.

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Table of Contents Colloquium Of Methods Of Optimization

1. Understanding the eBook Colloquium Of Methods Of Optimization
 - The Rise of Digital Reading Colloquium Of Methods Of Optimization
 - Advantages of eBooks Over Traditional Books
2. Identifying Colloquium Of Methods Of Optimization
 - 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 Colloquium Of Methods Of Optimization
 - User-Friendly Interface
4. Exploring eBook Recommendations from Colloquium Of Methods Of Optimization
 - Personalized Recommendations
 - Colloquium Of Methods Of Optimization User Reviews and Ratings
 - Colloquium Of Methods Of Optimization and Bestseller Lists
5. Accessing Colloquium Of Methods Of Optimization Free and Paid eBooks
 - Colloquium Of Methods Of Optimization Public Domain eBooks
 - Colloquium Of Methods Of Optimization eBook Subscription Services
 - Colloquium Of Methods Of Optimization Budget-Friendly Options
6. Navigating Colloquium Of Methods Of Optimization eBook Formats
 - ePub, PDF, MOBI, and More
 - Colloquium Of Methods Of Optimization Compatibility with Devices
 - Colloquium Of Methods Of Optimization Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Colloquium Of Methods Of Optimization
 - Highlighting and Note-Taking Colloquium Of Methods Of Optimization
 - Interactive Elements Colloquium Of Methods Of Optimization

8. Staying Engaged with Colloquium Of Methods Of Optimization
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Colloquium Of Methods Of Optimization
9. Balancing eBooks and Physical Books Colloquium Of Methods Of Optimization
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Colloquium Of Methods Of Optimization
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Colloquium Of Methods Of Optimization
 - Setting Reading Goals Colloquium Of Methods Of Optimization
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Colloquium Of Methods Of Optimization
 - Fact-Checking eBook Content of Colloquium Of Methods Of Optimization
 - 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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