



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 On Methods Of Optimization

PT Brinkman



Colloquium On Methods Of Optimization:

This book delves into Colloquium On Methods Of Optimization. Colloquium On Methods Of Optimization is a vital 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 On 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 On Methods Of Optimization
 - Chapter 2: Essential Elements of Colloquium On Methods Of Optimization
 - Chapter 3: Colloquium On Methods Of Optimization in Everyday Life
 - Chapter 4: Colloquium On Methods Of Optimization in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Colloquium On Methods Of Optimization. The first chapter will explore what Colloquium On Methods Of Optimization is, why Colloquium On Methods Of Optimization is vital, and how to effectively learn about Colloquium On Methods Of Optimization.
 3. In chapter 2, the author will delve into the foundational concepts of Colloquium On Methods Of Optimization. This chapter will elucidate the essential principles that must be understood to grasp Colloquium On Methods Of Optimization in its entirety.
 4. In chapter 3, this book will examine the practical applications of Colloquium On Methods Of Optimization in daily life. This chapter will showcase real-world examples of how Colloquium On Methods Of Optimization can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Colloquium On Methods Of Optimization in specific contexts. The fourth chapter will explore how Colloquium On Methods Of Optimization is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Colloquium On Methods Of Optimization. The final chapter will summarize the key points that have been discussed throughout the book.
- The 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 On Methods Of Optimization.

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Colloquium On Methods Of Optimization Introduction

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