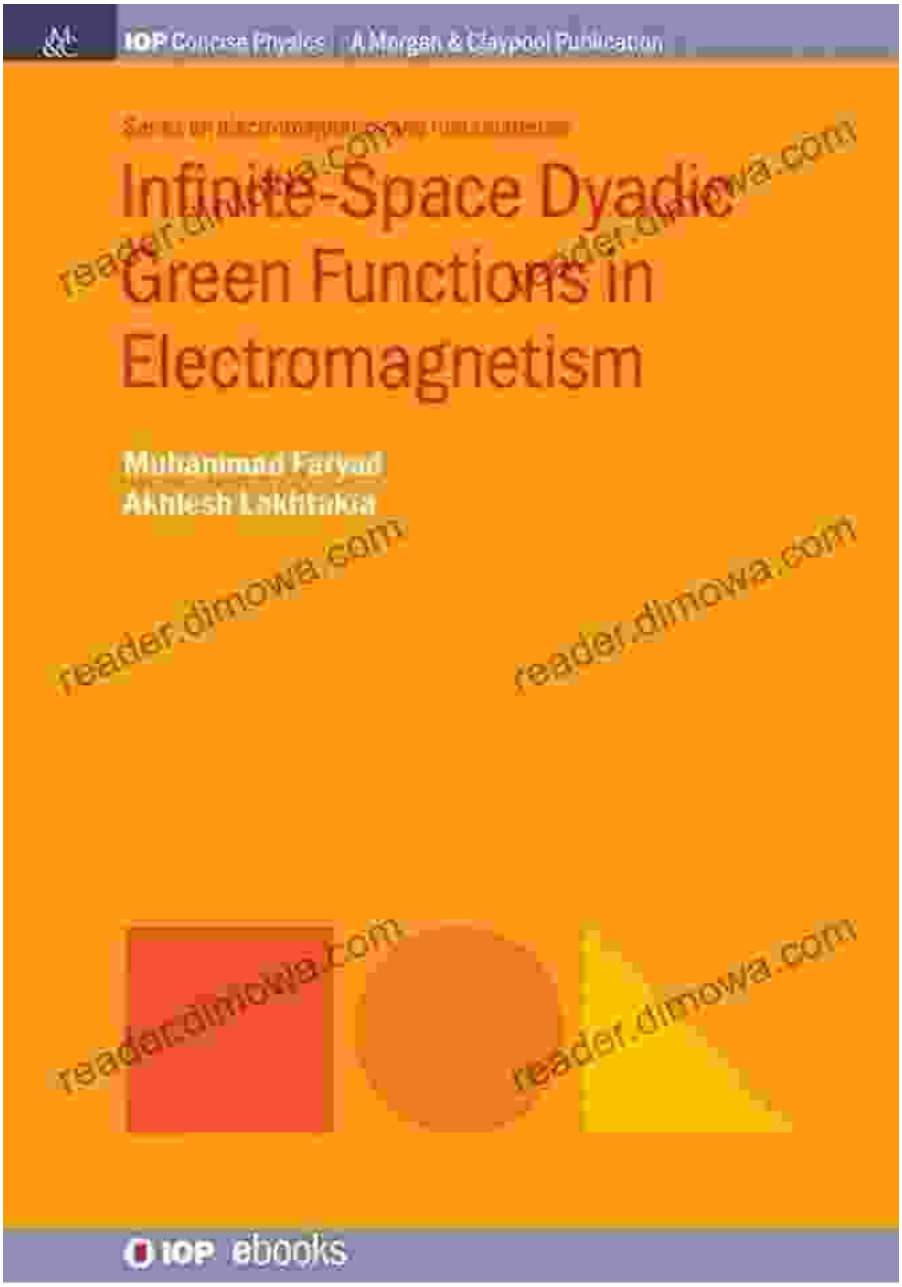
Infinite Space Dyadic Green Functions In Electromagnetism



A Comprehensive Guide

This book provides a comprehensive and self-contained treatment of dyadic Green functions in electromagnetism and their applications to

antenna analysis. The book begins with a review of vector analysis and dyadic algebra, and then introduces the concept of dyadic Green functions. The book provides a detailed and systematic derivation of the dyadic Green functions for a variety of source configurations, including point sources, line sources, and plane waves. The book also discusses the use of dyadic Green functions to solve a variety of electromagnetic problems, including the analysis of antennas, the design of microwave circuits, and the study of electromagnetic scattering.

Infinite-Space Dyadic Green Functions in Electromagnetism (IOP Concise Physics) by Temitope James

★★★★★ 5 out of 5

Language	: English
File size	: 2441 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 281 pages

The book is intended for advanced undergraduate and graduate students in electrical engineering and physics. It is also a valuable resource for researchers in the field of electromagnetism.

Table of Contents

4. Applications to Antenna Analysis
5. Applications to Microwave Circuits
6. Applications to Electromagnetic Scattering

Author

The author of this book is Professor Carl E. Baum. Professor Baum is a distinguished professor of electrical engineering at the University of California, Los Angeles. He is a Fellow of the IEEE and a member of the National Academy of Engineering. Professor Baum has authored over 200 papers in the field of electromagnetism and has received numerous awards for his research.

Reviews

"This book is a valuable resource for anyone working in the field of electromagnetism. It provides a comprehensive and self-contained treatment of dyadic Green functions and their applications to antenna analysis, microwave circuits, and electromagnetic scattering." - Professor John L. Volakis, University of Michigan

"This book is a must-have for anyone interested in the analysis of antennas and microwave circuits. It provides a clear and concise treatment of dyadic Green functions and their applications to a wide variety of electromagnetic problems." - Professor David M. Pozar, University of Massachusetts Amherst

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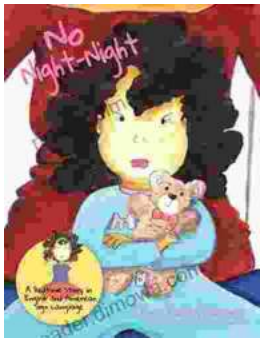

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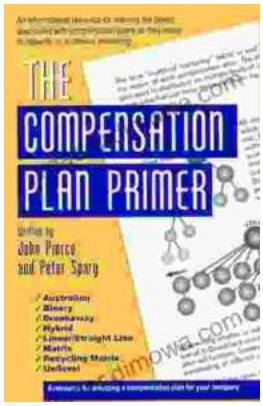

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