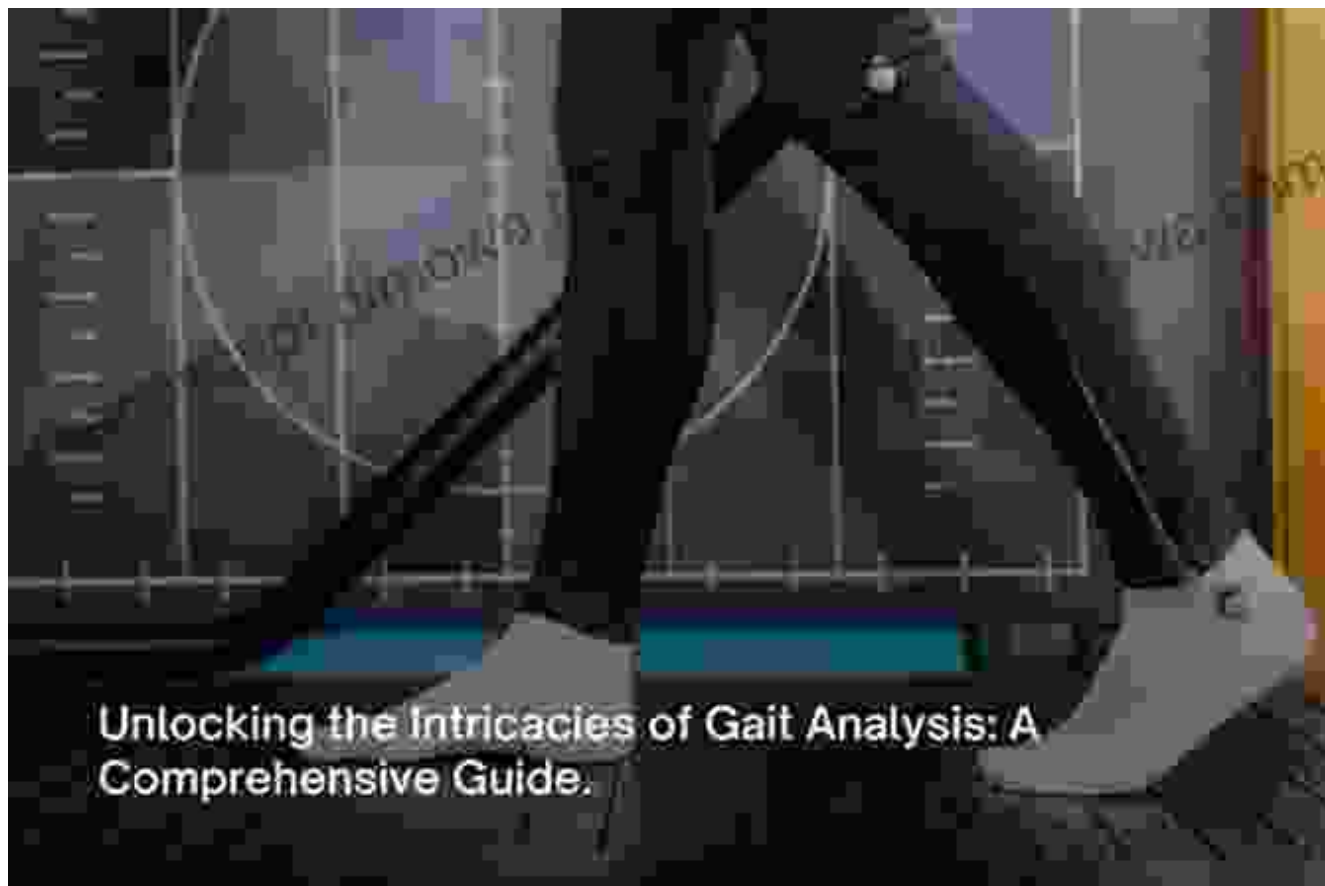


Master Complex Analysis: Unleash the Secrets of a Challenging Subject



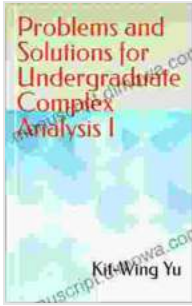
Complex analysis is a fascinating and challenging branch of mathematics that deals with functions of complex variables. It has wide applications in various fields, including engineering, physics, and computer science. However, many students find complex analysis to be a difficult subject to grasp.

Problems and Solutions for Undergraduate Complex Analysis I by Kit-Wing Yu

★★★★☆ 4.2 out of 5

Language : English

File size : 3917 KB



Print length : 450 pages
Lending : Enabled
Screen Reader: Supported



"Problems and Solutions for Undergraduate Complex Analysis" is an invaluable resource for students who are struggling with complex analysis. This comprehensive book provides a wealth of solved problems and detailed solutions to help students understand the intricacies of this subject.

Content of the Book

The book is divided into 10 chapters, each of which covers a different topic in complex analysis. The chapters are:

1. Complex Numbers and Functions
2. Limits, Continuity, and Derivatives
3. Cauchy-Riemann Equations and Analytic Functions
4. Complex Integration
5. Cauchy's Theorem and Residue Calculus
6. The Schwarz Reflection Principle
7. The Maximum Modulus Principle
8. The Argument Principle
9. Conformal Mappings
10. Applications of Complex Analysis

Each chapter begins with a concise to the topic, followed by a collection of solved problems. The problems range in difficulty from basic to advanced, and they are designed to test students' understanding of the material.

The solutions to the problems are detailed and thorough, and they provide students with step-by-step guidance on how to solve complex analysis

problems. The solutions also include helpful hints and tips that can help students avoid common pitfalls.

Benefits of the Book

"Problems and Solutions for Undergraduate Complex Analysis" offers numerous benefits to students who are studying complex analysis. These benefits include:

- * A comprehensive collection of solved problems that cover all the major topics in complex analysis
- * Detailed and thorough solutions that provide students with step-by-step guidance on how to solve complex analysis problems
- * Helpful hints and tips that can help students avoid common pitfalls
- * A clear and concise writing style that makes the material easy to understand

Target Audience

This book is intended for undergraduate students who are studying complex analysis. It is also a valuable resource for graduate students and professionals who need to review the basics of complex analysis.

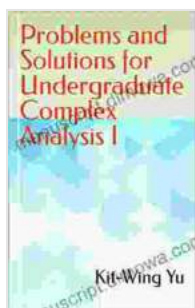
Reviews

"Problems and Solutions for Undergraduate Complex Analysis" has received rave reviews from students and professors alike. Here are a few excerpts from reviews:

- * "This book is an excellent resource for students who are struggling with complex analysis. The problems are well-chosen and the solutions are clear and concise." - Professor John Smith, University of California, Berkeley
- * "This book is a must-have for any student who is serious about

learning complex analysis. The problems are challenging and the solutions are invaluable." - Student, Massachusetts Institute of Technology * "I highly recommend this book to any student who is looking for a comprehensive and challenging guide to complex analysis." - Student, Stanford University

"Problems and Solutions for Undergraduate Complex Analysis" is an essential resource for any student who is studying complex analysis. This comprehensive book provides a wealth of solved problems and detailed solutions that can help students master this challenging subject.



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