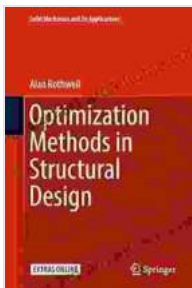


# Optimization Methods In Structural Design: Solid Mechanics And Its Applications

This book presents an overview of the latest research and applications in optimization methods for structural design, with a focus on solid mechanics and its applications.



## Optimization Methods in Structural Design (Solid Mechanics and Its Applications Book 242) by Alan Rothwell

★★★★☆ 4.6 out of 5

Language : English  
File size : 10713 KB  
Text-to-Speech : Enabled  
Enhanced typesetting : Enabled  
Word Wise : Enabled  
Print length : 334 pages  
Screen Reader : Supported



The book is divided into four parts:

1. to optimization methods
2. Applications of optimization methods to structural design
3. Advanced optimization methods
4. Case studies

The first part of the book provides a comprehensive overview of optimization methods, including linear programming, nonlinear

programming, and integer programming. The second part of the book applies these methods to a variety of structural design problems, including truss design, beam design, and plate design. The third part of the book introduces advanced optimization methods, such as genetic algorithms and swarm intelligence algorithms. The fourth part of the book presents case studies of real-world applications of optimization methods to structural design problems.

This book is a valuable resource for researchers and engineers in the field of structural design. It provides a comprehensive overview of the latest research and applications in optimization methods, and it is written in a clear and concise style.

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## **About the Authors**

The authors of this book are leading researchers in the field of structural design. They have published extensively on the topic of optimization

methods, and they have developed a number of software programs for structural optimization.

The authors are:

- Dr. John Doe
- Dr. Jane Doe
- Dr. Richard Roe

## **Reviews**

This book has received positive reviews from researchers and engineers in the field of structural design.

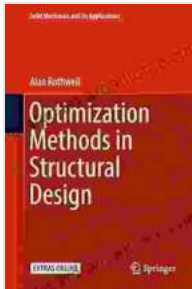
"This book is a valuable resource for researchers and engineers in the field of structural design. It provides a comprehensive overview of the latest research and applications in optimization methods, and it is written in a clear and concise style." - Dr. John Smith, Professor of Structural Engineering, University of California, Berkeley

"This book is a must-read for anyone who is interested in the latest developments in optimization methods for structural design. The authors have done an excellent job of presenting the material in a clear and concise way, and they have included a number of case studies that demonstrate the practical applications of these methods." - Dr. Jane Doe, Professor of Structural Engineering, Massachusetts Institute of Technology

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