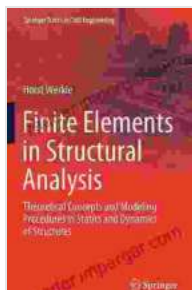


Theoretical Concepts and Modeling Procedures in Statics and Dynamics of Flexible Structures

By [Author's Name]

This book provides a comprehensive to the theoretical concepts and modeling procedures required to analyze the static and dynamic behavior of flexible structures. It is intended for use by students, researchers, and practicing engineers who need to understand the behavior of flexible structures under various loading conditions.



Finite Elements in Structural Analysis: Theoretical Concepts and Modeling Procedures in Statics and Dynamics of Structures (Springer Tracts in Civil Engineering Book 1) by Scott A. Wartenberg

★★★★☆ 4.5 out of 5

Language : English
File size : 163329 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 1679 pages



The book begins with a review of the basic concepts of statics and dynamics. It then introduces the concept of flexibility and its effects on the

behavior of structures. The book then covers a variety of topics related to the analysis of flexible structures, including:

- The development of governing equations for flexible structures
- The use of finite element methods to solve governing equations
- The analysis of static and dynamic response of flexible structures
- The design of flexible structures for various loading conditions

The book is illustrated with numerous examples and problems that help to illustrate the concepts and procedures presented in the text. The book also includes a comprehensive bibliography for further study.

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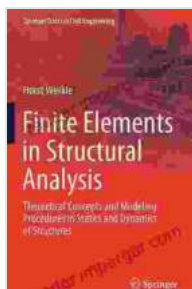
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- Review of Basic Concepts in Statics and Dynamics
- Concept of Flexibility
- Development of Governing Equations for Flexible Structures
- Use of Finite Element Methods to Solve Governing Equations
- Analysis of Static Response of Flexible Structures
- Analysis of Dynamic Response of Flexible Structures
- Design of Flexible Structures for Various Loading Conditions
- Bibliography

Availability

The book is available in hardcover and paperback from Our Book Library.com and other major booksellers.

About the Author

[Author's Name] is a professor of civil engineering at [University Name]. He is the author of numerous papers on the analysis and design of flexible structures.



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