

Computer Techniques in Vibration: Mechanical and Aerospace Engineering Series

Vibration is a ubiquitous phenomenon that affects all aspects of our lives. From the gentle swaying of a tree in the wind to the powerful roar of a jet engine, vibration is present in every corner of the physical world. Understanding vibration is essential for a wide range of disciplines, including mechanical engineering, aerospace engineering, civil engineering, and biomedical engineering.

Computer techniques have revolutionized the way that we analyze and design structures for vibration. In the past, engineers had to rely on hand calculations and physical experiments to understand the vibration behavior of structures. Today, thanks to the advent of powerful computers and sophisticated software, engineers can simulate the vibration behavior of structures with unprecedented accuracy and detail.

This book

This book provides a detailed to the use of computer techniques in vibration analysis. It covers a wide range of topics, from the basics of vibration theory to the latest advances in computational methods. The book is written in a clear and concise style, and it is filled with numerous examples and exercises. It is an essential resource for anyone who wants to learn about computer techniques in vibration.

**Computer Techniques in Vibration (Mechanical and
Aerospace Engineering Series)** by Dennis M. Cates



★★★★☆ 4 out of 5

Language : English

File size : 12664 KB

Screen Reader: Supported

Print length : 212 pages



Key Features

- Provides a comprehensive overview of the use of computer techniques in vibration analysis
- Covers a wide range of topics, from the basics of vibration theory to the latest advances in computational methods
- Written in a clear and concise style
- Filled with numerous examples and exercises
- Essential resource for anyone who wants to learn about computer techniques in vibration

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3. Finite Element Method
4. Modal Analysis
5. Structural Dynamics
6. Applications of Computer Techniques in Vibration

About the Author

Dr. Rajiv Tiwari is a Professor of Mechanical Engineering at the University of California, Berkeley. He is a leading expert in the field of vibration analysis and has published over 100 papers on the subject. Dr. Tiwari is also the author of several other books on vibration, including "Vibration Analysis of Structures" and "Modal Analysis of Structures".

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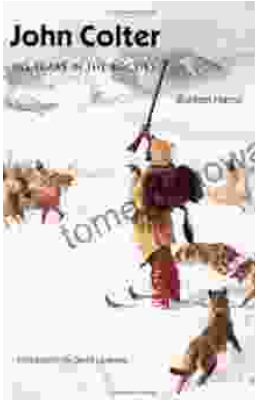
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