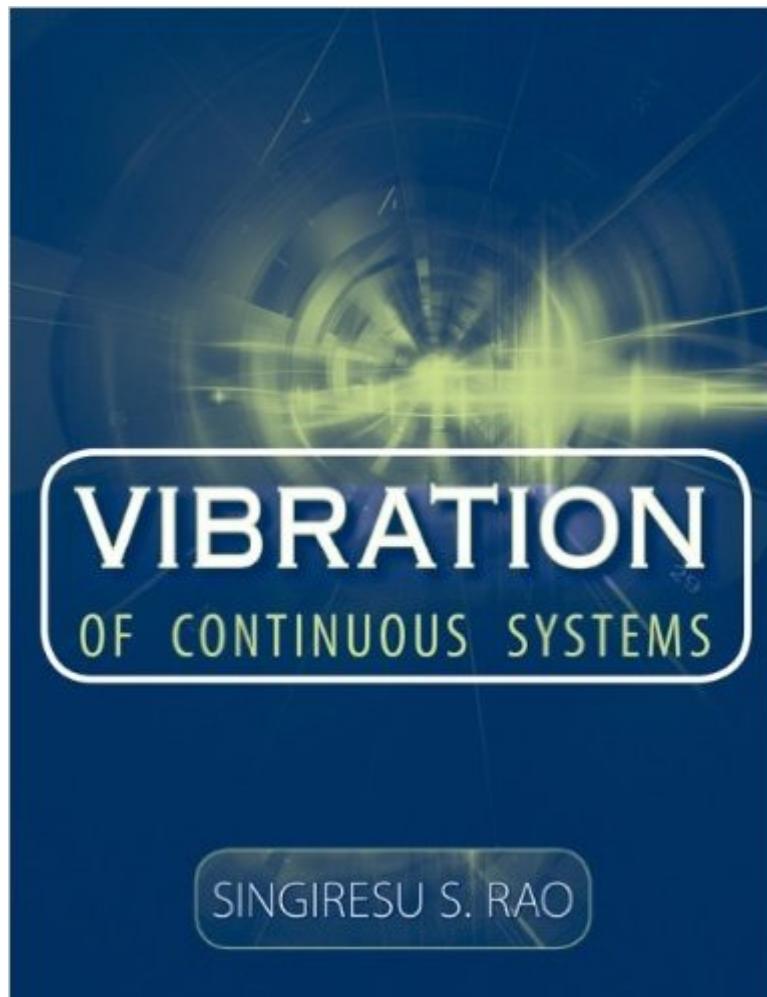


The book was found

Vibration Of Continuous Systems



Synopsis

Broad, up-to-date coverage of advanced vibration analysis by the market-leading author Successful vibration analysis of continuous structural elements and systems requires a knowledge of material mechanics, structural mechanics, ordinary and partial differential equations, matrix methods, variational calculus, and integral equations. Fortunately, leading author Singiresu Rao has created *Vibration of Continuous Systems*, a new book that provides engineers, researchers, and students with everything they need to know about analytical methods of vibration analysis of continuous structural systems. Featuring coverage of strings, bars, shafts, beams, circular rings and curved beams, membranes, plates, and shells-as well as an introduction to the propagation of elastic waves in structures and solid bodies-*Vibration of Continuous Systems* presents:

- * Methodical and comprehensive coverage of the vibration of different types of structural elements
- * The exact analytical and approximate analytical methods of analysis
- * Fundamental concepts in a straightforward manner, complete with illustrative examples

With chapters that are independent and self-contained, *Vibration of Continuous Systems* is the perfect book that works as a one-semester course, self-study tool, and convenient reference.

Book Information

Hardcover: 744 pages

Publisher: Wiley; 1 edition (February 9, 2007)

Language: English

ISBN-10: 0471771716

ISBN-13: 978-0471771715

Product Dimensions: 7.7 x 1.7 x 9.6 inches

Shipping Weight: 3.1 pounds (View shipping rates and policies)

Average Customer Review: 3.4 out of 5 starsÂ See all reviewsÂ (5 customer reviews)

Best Sellers Rank: #1,596,737 in Books (See Top 100 in Books) #73 inÂ Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural Dynamics #1221 inÂ Books > Science & Math > Physics > Dynamics #1321 inÂ Books > Textbooks > Science & Mathematics > Mechanics

Customer Reviews

I initially borrowed this book from a colleague when learning about the topic. After a week of searching around for other books on the topic, I decided to purchase this book. Most vibrations books only have 1-2 chapters discussing continuous vibrations. This book is one of the few

exceptions I found and is, by far, the best book I found on the topic. This is a well organized, very thorough book. As a fan of examples, this book has many easy-to-follow and well explained examples for each of the covered topics (see Product Description for topics). The book discusses the assumptions made for the equations of motion and the reasons behind those assumptions. It covers free vibrations, forced vibrations, and initial condition/value problems. It has tables that list different boundary conditions and frequency equations. As a first edition, this book is nearly error free. I noticed only one minor error in the first 14 chapters I have studied thus far. I highly recommend this book.

This book is a great introductory book for structural dynamics. It's well organized and breaks down each topic in an easy-to-read format. This book along with Mierovitch's book on the same subject will give any student a great foundation.

This is a fascinating book on continuous vibrations. It is easy to read, comprehensive and avoids unnecessary lengthening of the topics. A very good reference too.

I have never seen such a poor printing quality book. Many fraction equations with no lines and smeared pages.

Did not need for Elijakoff

[Download to continue reading...](#)

Vibration of Continuous Systems
Vibration of Mechanical and Structural Systems: With Microcomputer Applications
The DevOps 2.0 Toolkit: Automating the Continuous Deployment Pipeline with Containerized Microservices
API-Driven DevOps: Strategies for Continuous Deployment
How to Make Money on , EBay and Alibaba: Easy Options to Generate Continuous Streams of Income Online (Beginners Guide To Selling Online, Making Money And Finding Products)
Continuous Container Gardens: Swap In the Plants of the Season to Create Fresh Designs Year-Round
Continuous Delivery: Reliable Software Releases through Build, Test, and Deployment Automation (Adobe Reader) (Addison-Wesley Signature Series (Fowler))
The Continuous Wave: Technology and American Radio, 1900-1932 (Princeton Legacy Library)
The Memory Jogger II Healthcare Edition: A Pocket Guide of Tools for Continuous Improvement and Effective Planning
Exploiting Continuity: Maximum Entropy Estimation of Continuous Distribution (Series on Econometrics and Management Sciences)
Soil Dynamics with Applications in Vibration

and Earthquake Protection Random Vibration of Structures Sound and Structural Vibration, Second Edition: Radiation, Transmission and Response Structural Dynamics and Vibration in Practice: An Engineering Handbook Vibration Damping of Structural Elements Vibration of Axially-Loaded Structures Flow-Induced Pulsation and Vibration in Hydroelectric Machinery: Engineer's Guidebook for Planning, Design and Troubleshooting Preventing Thermal Cycling and Vibration Failures in Electronic Equipment ISO 1940-1:2003, Mechanical vibration -- Balance quality requirements for rotors in a constant (rigid) state -- Part 1: Specification and verification of balance tolerances ISO 1940-2:1997, Mechanical vibration - Balance quality requirements of rigid rotors - Part 2: Balance errors

[Dmca](#)