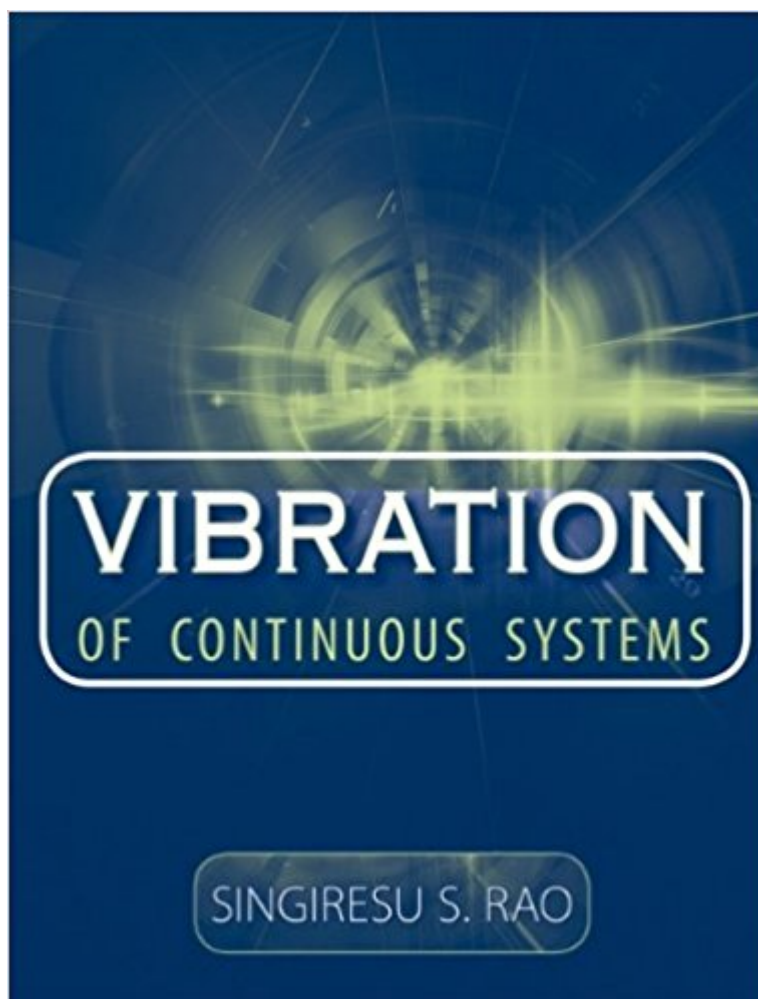


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# Vibration Of Continuous Systems



## 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

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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.

Singiresu S. Rao, PhD, is Professor and Chairman of the Department of Mechanical Engineering at the University of Miami in Coral Gables, Florida. He has authored a number of textbooks, including the market-leading introductory-level text on vibrations, *Mechanical Vibrations*, Fourth Edition.

As a quality , it is good But there are many typos in the equations.

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

Did not need for Elijakoff

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.

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 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.

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