



# Vibrations and Waves

*By George C. King*

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## Vibrations and Waves By George C. King

This introductory text emphasises physical principles, rather than the mathematics. Each topic begins with a discussion of the physical characteristics of the motion or system. The mathematics is kept as clear as possible, and includes elegant mathematical descriptions where possible. Designed to provide a logical development of the subject, the book is divided into two sections, vibrations followed by waves. A particular feature is the inclusion of many examples, frequently drawn from everyday life, along with more cutting-edge ones. Each chapter includes problems ranging in difficulty from simple to challenging and includes hints for solving problems. Numerous worked examples included throughout the book.

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## **Vibrations and Waves** By George C. King Bibliography

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## Editorial Review

### Review

"Each chapter is accompanied by a set of problems that form an important part of the book. The book could be used by undergraduate students taking a course in oscillation or wave physics." (*Zentralblatt MATH*, 2010)

"The text concisely describes vibrations and waves through mathematical equations with an emphasis on their physical meaning." (*Outrider*, January 2010)

From the Back Cover

### **The Manchester Physics Series**

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*Dynamics and Relativity*, J.R. Forshaw and A.G. Smith

*Vibrations and Waves*, G.C. King

*Vibrations and Waves* is based on an introductory course given regularly by the author. The text provides the student with a thorough grounding in the theory of vibrations and waves.

Throughout the book, the fundamental principles of vibrations and waves are emphasised so that these principles can be applied to a wide range of oscillating systems and to different kinds of waves.

The text, which is divided into two sections, *vibrations* followed by *waves*, follows a logical progression

from the simple harmonic oscillator to waves in continuous media.

*Vibrations and Waves* includes:

- Vibrations and waves beautifully and concisely described in terms of the mathematical equations used throughout the book
- Worked examples throughout
- Problems ranging in difficulty from simple to challenging

Solutions and hints to the problems at the end of the book

## **Users Review**

**From reader reviews:**

**Willene Choate:**

The book *Vibrations and Waves* make you feel enjoy for your spare time. You need to use to make your capable a lot more increase. Book can to get your best friend when you getting stress or having big problem along with your subject. If you can make looking at a book *Vibrations and Waves* for being your habit, you can get a lot more advantages, like add your own personal capable, increase your knowledge about some or all subjects. You could know everything if you like available and read a e-book *Vibrations and Waves*. Kinds of book are several. It means that, science book or encyclopedia or other folks. So , how do you think about this guide?

**Nancy Hedrick:**

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