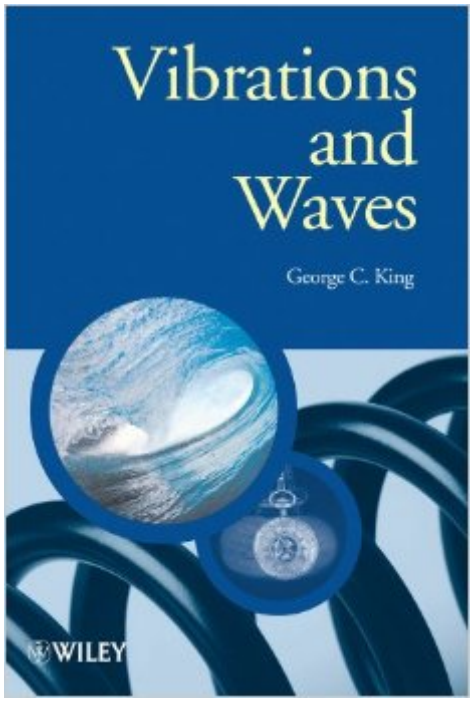
# Vibrations And Waves (Manchester Physics Series)



## Synopsis

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.

## Book Information

File Size: 3934 KB

Print Length: 242 pages

Page Numbers Source ISBN: 0470011882

Publisher: Wiley; 1 edition (March 15, 2013)

Publication Date: March 15, 2013

Sold by:Â  Digital Services LLC

Language: English

ASIN: B00BW7T6GO

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #567,415 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #32 inÂ Kindle Store > Kindle eBooks > Nonfiction > Science > Physics > Waves & Wave Mechanics #175 inÂ Books > Science & Math > Physics > Waves & Wave Mechanics

## Customer Reviews

before you read this review, please keep in mind that constructing smooth paragraph isn’t my thing. I hope to make that up with a detailed review. As the topic suggests, this review is about examples and end up chapter problems in this book. That said, here’s some rough stat on ’em...Chapter 1: Simple Harmonic Motion (SHM)4 examples, 13 end of chapter problemsChapter 2: The Damped Harmonic Oscillator3 examples, 8 end of chapter problemsChapter 3: Forced Oscillations3

examples, 12 end of chapter problemsChapter 4: Coupled Oscillators2 examples, 10 end of chapter problemsChapter 5: Travelling Waves2 examples, 15 end of chapter problemsChapter 6: Standing Waves3 examples, 15 end of chapter problemsChapter 7: Interference and Diffraction of Waves0 examples, 11 end of chapter problemsChapter 8: The Dispersion of Waves2 examples, 11 end of chapter problemsYou might be thinking this is too few but let me tell you something, this is a fair job for a book with 242 pages. These examples aren't "plug and chuck 2 line examples" like most other books do. Instead, they are lengthy ones. A couple of them go as long as two pages.It's remarkable that all end of chapter problems have solution (not just answer key, but worked out solutions) at the end of the book. In relatively easier (especially early questions like #1 or #2) author sometimes takes freedom of just showing the answer...but this is no biggie. The rest have detailed enough solutions.Another thing worth mentioning is usages of figures and diagrams in the book. The author adds figures whenever possible.