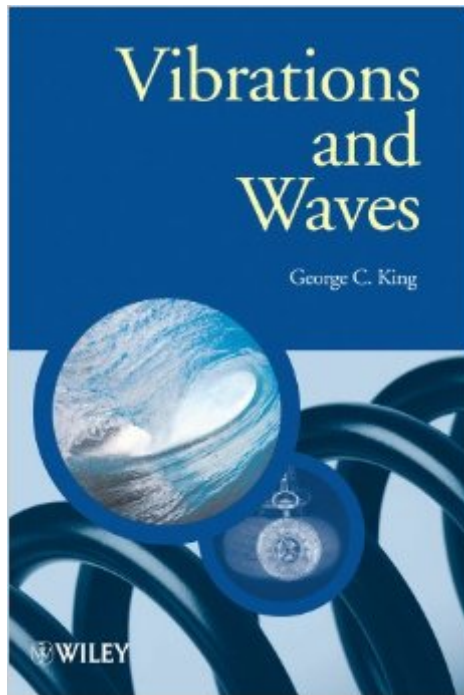


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# Vibrations And Waves (Manchester Physics Series)



## 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

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## 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 problems Chapter 4: Coupled Oscillators 2 examples, 10 end of chapter problems Chapter 5: Travelling Waves 2 examples, 15 end of chapter problems Chapter 6: Standing Waves 3 examples, 15 end of chapter problems Chapter 7: Interference and Diffraction of Waves 0 examples, 11 end of chapter problems Chapter 8: The Dispersion of Waves 2 examples, 11 end of chapter problems You 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.

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