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Vibrations and Waves (The M.I.T. Introductory Physics Series) by A.P. French (Author)

Vibrations and Waves (The M.I.T. Introductory Physics ...

Introducing the sine-wave, vectors and complex-exponentials as the fundamentals of periodic motion, the topics then progress to combining vibrations, masses and springs, harmonic and torsional oscillation, forced vibrations, coupled oscillators, Fourier analysis, orthogonal functions, energy transporting, decay of free vibrations, nuclear and optical resonance, diffraction and interference patterns to briefly name but a few.

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Vibrations and Waves, A.P. French, eBook - Amazon.com

Great book for anyone interested in classical wave phenomena or is planning on studying quantum waves in the future. Word of caution, it does get very math/trig heavy in certain proofs and there were multiple times where i was expected to know trig identities in order to follow along with the proofs.

Vibrations and Waves by Anthony P. French

The M.I.T. Introductory Physics Series is the result of a program of careful study, planning, and development that began in 1960. The Education Research Center at the Massachusetts Institute of Technology (formerly the Science Teaching Center) was established to study the process of instruction, aids thereto, and the learning process itself, with special reference to science teaching at the ...

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Page 154 of the text shows that the velocity of sound c in a gas at pressure P is given by: $c = \sqrt{\frac{\gamma P}{\rho}}$ where V is the molar volume, M is the molar mass and N is Avogadro's number, so: $\rho = \frac{M}{V} = \frac{M}{NkT/P} = \frac{MP}{NkT}$ where $\gamma = \frac{C_p}{C_v} = \frac{5}{3}$ for a diatomic gas. $c = \sqrt{\frac{\gamma P}{\rho}} = \sqrt{\frac{\gamma P}{\frac{MP}{NkT}}} = \sqrt{\frac{\gamma NkT}{M}}$ $c = \sqrt{\frac{1.67 \times 10^{-26} \times 1.38 \times 10^{-23} \times 300}{0.028}} = 330 \text{ m/s}$ 6.2 The intensity of sound wave can be written as: $I = \frac{1}{2} \rho \omega^2 A^2 c$ where P is acoustic pressure, ρ is air density, and c is sound velocity, so we have: $I = \frac{1}{2} \rho \omega^2 A^2 c = \frac{1}{2} \rho \omega^2 A^2 \times 330 \approx 1.1 \times 10^{-4} \text{ Pa}^2 \text{ s}$ which is 6.5×10^{-4} of the pressure of an ...

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8.03SC Physics III: Vibrations and Waves Introduction

P.P.S. Vibrations and Waves (Manchester Physics Series) is a 2009 book published by Wiley. It actually has worked out examples. Also, at the end of the book, it provides worked out solutions (not answer key but solutions) to end of chapter problems.

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Introduction to course 8.03. This is an upscaled 240p version of the video. For this introduction, unlike the actual lectures of 8.03, there is no 480p versi...

8.03 Introduction - Walter Lewin

A.P French is the author of several textbooks, Vibrations and Waves being his most popular, and quite rightly so. Vibrations and waves has a diverse coverage of vibrational meachnics, and includes all the necessary derivations using plain, well explained English.

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