

According to Eqs. (14.1) and (14.2), the frequency f and period T are

$$f = \frac{\omega}{2\pi} = \frac{1}{2\pi} \sqrt{\frac{k}{m}} \quad (\text{simple harmonic motion}) \quad (14.11)$$

$$T = \frac{1}{f} = \frac{2\pi}{\omega} = 2\pi \sqrt{\frac{m}{k}} \quad (\text{simple harmonic motion}) \quad (14.12)$$

14.7 The greater the mass m in a tuning fork's tines, the lower the frequency of oscillation $f = (1/2\pi) \sqrt{k/m}$ and the

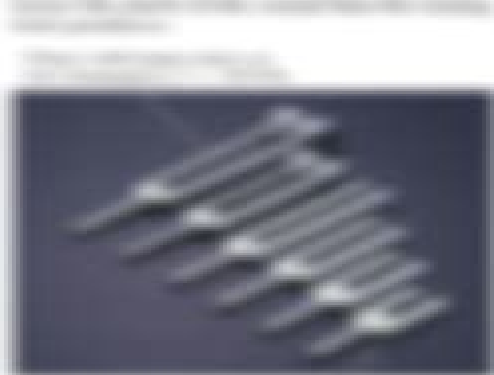


FIGURE 14.7

We see from Eq. (14.12) that a larger mass m , with its greater inertia, will have less acceleration, move more slowly, and take a longer time for a complete cycle (Fig. 14.7). In contrast, a stiffer spring (one with a larger force constant k) exerts greater acceleration.

EXAMPLE 14.1 A mass $m = 0.50 \text{ kg}$ is attached to a spring with force constant $k = 200 \text{ N/m}$. The mass is released from rest at a displacement $x = 0.10 \text{ m}$ from equilibrium. Find (a) the frequency f and (b) the period T of the oscillation.

Period and Amplitude in SHM

The period T and frequency f of a simple harmonic oscillator depend on the mass m and the spring force constant k , but not on the amplitude A of the oscillation. This is a special feature of simple harmonic motion. For example, a pendulum of length L has a period $T = 2\pi \sqrt{L/g}$ that is independent of the amplitude of the oscillation. The period T of a simple harmonic oscillator is the time for one complete cycle of the motion. The frequency f is the number of cycles per unit time.

The amplitude A of a simple harmonic oscillator is the maximum displacement from equilibrium. The amplitude A is a measure of the energy of the oscillator. The period T and frequency f are independent of the amplitude A . The period T and frequency f are independent of the amplitude A .

14.8 Simple Harmonic Motion: Energy and Simple Pendulum

Simple harmonic motion is a periodic motion that can be described by a sinusoidal function. The displacement x of a simple harmonic oscillator from equilibrium is given by $x = A \cos(\omega t + \phi)$, where A is the amplitude, ω is the angular frequency, and ϕ is the phase constant. The velocity v and acceleration a of the oscillator are given by $v = -A\omega \sin(\omega t + \phi)$ and $a = -A\omega^2 \cos(\omega t + \phi)$, respectively.

EXAMPLE 14.2 A simple harmonic oscillator has a mass $m = 0.50 \text{ kg}$ and a spring force constant $k = 200 \text{ N/m}$. The oscillator is released from rest at a displacement $x = 0.10 \text{ m}$ from equilibrium. Find (a) the frequency f and (b) the period T of the oscillation.

EXAMPLE 14.3 A simple harmonic oscillator has a mass $m = 0.50 \text{ kg}$ and a spring force constant $k = 200 \text{ N/m}$. The oscillator is released from rest at a displacement $x = 0.10 \text{ m}$ from equilibrium. Find (a) the frequency f and (b) the period T of the oscillation.



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**Randall Dewey Knight, Brian
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Proceedings of the Blended Learning in Science, Teaching and Learning Symposium, 2005 Presents proceedings of the annual Uniserve Conference. The papers contained in this book include topics as teaching science online, tutorial benefits of online assignments, blended learning, and other related issues in relation to teaching science at a university level.

Principles of Physics Gordon Lind, Raymond A. Serway, 1997-10 The second edition like the first follows the guidelines of the Introductory University Physics Project (IUPP). The revision includes a stronger conceptual approach offering new conceptual examples and problems and it presents contemporary physics topics early to gain student interest. This book is intended for the science and engineering physics course. College Physics Raymond A. Serway, V. Gordon Lind, 1998-08 This 5 by 7 paperback is a section by section capsule of the textbook that provides a handy guide for looking up important concepts, equations, and problem solving hints. Pocket Guide to Accompany Principles of Physics Raymond A. Serway, V. Gordon Lind, 1994 *Study Guide and Selected Solutions Manual for Physics, Volume 2* David Reid, James Walker, 2009-04 The print study guide provides the following for each chapter: Objectives, Warm Up Questions from the Just in Time Teaching method by Gregor Novak and Andrew Garvin, Indiana University Purdue University Indianapolis, Chapter Review with two columns: Examples and integrated quizzes, Reference Tools, Resources, equation summaries, important tips and tools, Puzzle Questions also from Novak Garvin's JITT method, Solutions for selected and representative end of chapter questions and problems. **University Physics with Modern Physics, Volume 3 (Chapters 37-44)** Hugh Young, Roger

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Students Solutions Manual a la Carte for College Physics Eugenia Etkina, Gorazd Planinsic, Alan Van Heuvelen, 2018-04-27

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