

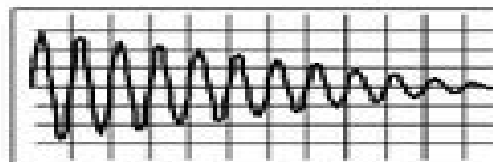
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Wave Actions

Ch. 12-2

Damping

No motion can last for ever. A pendulum will eventually stop swinging due to air friction. A wave will eventually lose its energy as well. Friction or the restoring force eventually cause the motion to lose its energy and to die out. This gradual reduction of amplitude we call **damping**.



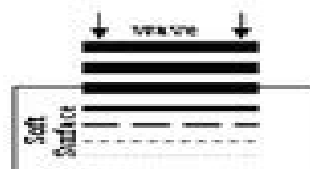
This graph shows the damping of harmonic motion over time until it has stopped (returned to its equilibrium position).

Boundary Reactions

There are four ways a wave can react depending on the boundary it encounters: **Absorption, Reflection, Refraction, Diffraction.**

Soft Boundaries Absorb

Absorption—a wave's energy dies out in a soft material (damping). *Example: Telling into a pillow. The soft pillow absorbs the sound.*



Absorption

Hard Boundaries Reflect

Reflection—a wave bounces off when it hits a hard boundary. *Example: When you yell against a wall, the sound wave reflects off of the wall.*



Reflection

We call sound that is reflected back to us **echoes**. Many animals use **echolocation** to see through dark caves or at night! An animal makes a noise and uses the echo to figure out where an object or prey is located.



Bats use echolocation, too, in **sonar** (submarines using sound waves), **radar** (airports using light waves), and **sonograms** (sound waves to see inside soft parts of the human body).



Corners Diffract

Diffraction—part of a wave bends around a corner. This is partially how we hear around corners and how some light can be seen around corners. What happens is the corner drags the wave slowing it down and turning it. *Example: talking to someone around a corner.*



Diffraction on

Light diffracts. PROVE IT: Put your hand up to your eye. Look between two of your fingers. As you close your fingers together you see "lines" — almost like your skin is "jumping the gap." These dark lines are where two diffracted light waves are canceling each other out to produce **darkness**. How do they cancel each other out? By **destructive interference**. see back page.

Transparent Boundaries Refract

Refraction—a wave bends when entering a transparent boundary. *Example: Light going into water bends toward the water. Light also bends going through the lenses of eyeglasses to magnify objects.*



Refraction

Natural Frequency

All objects have a **natural frequency**—the frequency that they vibrate at when disturbed. Musical instruments easily show natural frequencies, but most other objects have them, too: bridges, buildings, etc.

Resonance

Resonance is the reinforcing of an object's natural frequency so that the amplitude increases quickly. Harmonics show resonance. If you have ever been talking in a bathroom and notice that certain notes are very loud—that's resonance: that loud note is the natural frequency of that room. Resonance is how a soprano can break a glass with her voice.

Phase

Phase—a particular part of a cycle.



In-phase

In-phase means they are at the same point in their cycles.

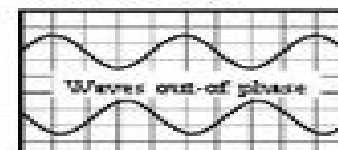


Out-of-phase means they are at different points in their cycles.

180° out-of-phase



Waves in-phase



Waves out-of-phase

Wave Actions Answer Key

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Geology (eBook) Edward P. Ortleb, Richard Cadice, 1986-09-01 The activities in this book provide a modern perspective on the earth's crust. Students will study rocks and minerals and learn about various geological processes. Each of the twelve teaching units in this book is introduced by a color transparency print, books or PowerPoint slide eBooks that emphasizes the basic concept of the unit and presents questions for discussion. Reproducible student pages provide reinforcement and follow up activities. The teaching guide offers descriptions of the basic concepts to be presented, background information, suggestions for enrichment activities, and a complete answer key. *Oceanography* Edward P. Ortleb, Richard

Cadice, 1991-09-01 Color Overheads Included This book presents a program of basic studies dealing with the science of oceanography. Various characteristics of the oceans are described, including features of the oceans, life within the oceans, and different ways of studying the oceans. Each of the twelve teaching units in this book is introduced by a color transparency which emphasizes the basic concept of the unit and presents questions for discussion. Reproducible student pages provide reinforcement and follow up activities. The teaching guide offers descriptions of the basic concepts to be presented, background information, suggestions for enrichment activities, and a complete answer key. **Beaches and Coasts** Richard

A. Davis, Jr., Duncan M. Fitzgerald, 2020-02-10 A new edition of a unique textbook that provides an exhaustive treatment of the world's different coasts with focus on climate change, sea level rise. Coastlines of the world are as diverse and complex as any geological setting on Earth, and understanding them is extremely important. *Beaches and Coasts* Second Edition is an exciting and unique textbook that covers the world's different coasts and details the highly varied processes that have shaped them. This new edition emphasizes the future susceptibility of coast to climate-driven stresses and decreasing sediment supplies and considers various aspects of coastal management that are and/or that need to be undertaken. Seeking to better educate students and readers about the sustainability of coast and coastal environments, this exciting and unique book offers enlightening coverage of the Earth's mobile crust, sediments of coastal environments, impacts of sea level change, weather systems, and the effects of storms, the influence of wave energy, and different tidal regimes, river deltas, coastal bays, estuaries, and lagoons, tidal flats, coastal wetlands, beach and nearshore areas, coastal barriers, tidal inlets, glaciated coasts, and rocky coasts. Takes an extensive look at the world's varied coasts and covers the many processes that have shaped them over time. Shows how coastal processes and landform evolution are expected to be impacted by climate change. Includes new coverage of Hurricane Katrina and the 2005 flooding of New Orleans, Hurricane Sandy and its affect on New York, and the earthquake and tsunami in the Indian Ocean and Tohoku. Lavishly illustrated with over 400 color photographs and figures. Draws on a wealth of author experience that broadens the content of chapters and provides for numerous and varied examples. *Beaches and Coasts* Second Edition is an excellent text for undergraduate and graduate students of coastal geology, coastal processes, and coastal environments. **Engineering and Cement World**, 1927 [Proceedings of the Parliament of South Australia](#)

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