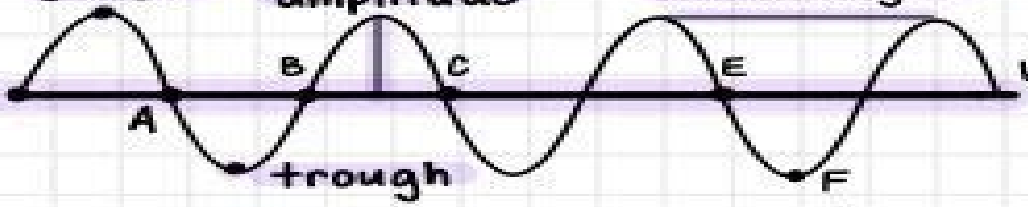
Waves

A **pulse** is a singular disturbance that carries energy through space

A **wave** is a pulse repeating at regular intervals.



Out of phase
A, B
C, F

in phase
A, C, E

When the wave reaches a **boundary**, it reflects off and inverts

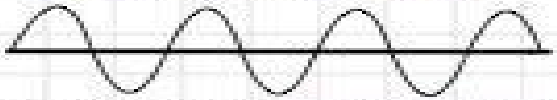
Points on a wave are **in phase** if they
- have the same displacement from equilibrium
- are moving in the same direction

Frequency f describes the number of waves per second. measured in Hertz (Hz)

$$T = \frac{1}{f}$$

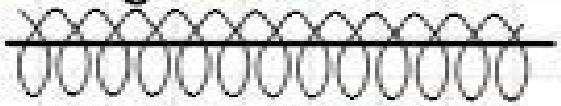
A wave's **period**, T describes how long it takes for one wave to pass. measured in seconds

transverse wave



Medium moves perpendicular to wave direction.
e.g. wave on a string

longitudinal wave



Medium moves parallel to wave direction.
e.g. sound

surface wave

Medium moves both parallel and perpendicular to wave direction.
e.g. surface of water

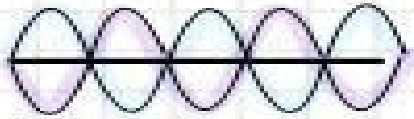
Mechanical waves require a medium to travel through.

Electromagnetic waves do not require a medium to travel through.

Resonance energy is transferred by a vibration resulting in standing waves with high amplitude.
e.g. guitar strings

The Doppler Effect
an apparent change in frequency due to relative motion.
e.g. firetruck siren

Standing wave
two identical waves traveling in opposite directions.



Diffraction wave bends around an obstacle or through an opening

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Marcel A. Müller

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Table of Contents Academic Physics High School Study Guide

1. Understanding the eBook Academic Physics High School Study Guide
    - The Rise of Digital Reading Academic Physics High School Study Guide
    - Advantages of eBooks Over Traditional Books
2. Identifying Academic Physics High School Study Guide
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Academic Physics High School Study Guide
    - User-Friendly Interface
4. Exploring eBook Recommendations from Academic Physics High School Study Guide
    - Personalized Recommendations
    - Academic Physics High School Study Guide User Reviews and Ratings
    - Academic Physics High School Study Guide and Bestseller Lists
5. Accessing Academic Physics High School Study Guide Free and Paid eBooks
    - Academic Physics High School Study Guide Public Domain eBooks
    - Academic Physics High School Study Guide eBook Subscription Services
    - Academic Physics High School Study Guide Budget-Friendly Options

6. Navigating Academic Physics High School Study Guide eBook Formats
    - ePub, PDF, MOBI, and More
    - Academic Physics High School Study Guide Compatibility with Devices
    - Academic Physics High School Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Academic Physics High School Study Guide
    - Highlighting and Note-Taking Academic Physics High School Study Guide
    - Interactive Elements Academic Physics High School Study Guide
8. Staying Engaged with Academic Physics High School Study Guide
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Academic Physics High School Study Guide
9. Balancing eBooks and Physical Books Academic Physics High School Study Guide
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Academic Physics High School Study Guide
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Academic Physics High School Study Guide
    - Setting Reading Goals Academic Physics High School Study Guide
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Academic Physics High School Study Guide
    - Fact-Checking eBook Content of Academic Physics High School Study Guide
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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