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Longitudinal Waves |

Waves | Physics |

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~~Sound~~  
~~Waves, Intensity level,~~

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~~Frequency, Doppler~~

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~~Introduction to Waves~~

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equation of a wave |

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~~Types Of Waves | Class~~

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~~Of Waves And~~

The surface of the wave moves up and down, which is perpendicular to the left-to-right

direction that the wave itself moves. But ocean waves are a little more complicated than ordinary transverse waves. They're really orbital progressive waves. The water molecules that make up

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the wave move in circles, or orbits, as the wave progresses. You can visualize this movement by thinking of the particles near the wave's surface.

~~The Physics of Waves~~

~~Waves |~~

~~HowStuffWorks~~

Physics of Waves and  
Sound Waves A wave is  
a disturbance in a

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medium that transports energy without permanently transporting matter. In our context, we will be focusing on sound waves, which can be thought of as the propagation of compression followed by relaxation of particles of a medium. An example of a sound wave is the percussion of a drum.

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Physics Of

~~The Basic Physics of  
Waves, Soundwaves,  
Oscillations, N.K  
and Shockwaves for ...~~

Waves are vibrations that transfer energy from place to place without matter (solid, liquid or gas) being transferred. Think of a Mexican wave in a football crowd - the wave moves around the...

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waves – Features of  
waves – GCSE ...~~

A fantastic guide on the physics and mathematics of waves and vibrations. From simple harmonic motion and coupled oscillations, to EM waves in the ionosphere, interferometers, convolution, matrix

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phonons, and more.

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money.

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This textbook

introduces the physics of

wave phenomena in a

refreshingly

approachable way,

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making it ideal for first-  
and second-year  
undergraduate students  
in the physical sciences.

Reviews ‘ This gem of  
a book will enable  
students to appreciate  
the core theme: that  
understanding wave  
motion is fundamental  
to almost every  
contemporary aspect of  
physics.

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~~Introduction Of  
Physics of Waves by  
Tim Freegarde~~

A wave is a disturbance  
that propagates through

a medium. verb,

propagate; noun,

propagation: refers to

the transmission of a

disturbance from one

location to another.

singular, medium;

plural, media: refers to

the intervening



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substance (s) through which a disturbance is transmitted. Essential property. Waves transfer energy, momentum, and information, but not mass.

~~The Nature of Waves~~

~~Summary~~ — The

~~Physics Hypertextbook~~

Learn about types of waves such as longitudinal and

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transverse waves as well as the structure of the earth with BBC Bitesize GCSE Physics.

Bajaj

~~Longitudinal and transverse waves~~ Types of waves ~~GCSE ...~~

Waves classed by the type of disturbance; name disturbance is... examples; transverse waves: perpendicular to propagation: light and

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all electromagnetic waves, gravitational waves, matter waves, nerve impulses, peristalsis, secondary seismic waves (S waves a.k.a. shear waves), locomotion in snakes and eels, stringed instruments, drums:  
longitudinal waves:  
parallel to propagation

~~The Nature of Waves~~

*Page 19/33*

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~~The Physics Of  
Hypertextbook  
Waves And  
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Different Types of  
Waves in Physics With

Examples. Waves transport energy without transporting matter. The energy transportation is carried by a disturbance, which spreads out from a source. Basically, there are three types of waves. Mechanical waves,

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electromagnetic waves,  
and matter waves.

Transverse waves and  
Mechanical waves are  
examples of mechanical  
waves.

~~Types of Waves In  
Physics and Their  
Examples~~

In transverse waves, the  
vibrations are at right  
angles to the direction of  
wave travel. Mechanical

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waves cause oscillations  
of particles in a solid,  
liquid or gas and must  
have a medium to  
travel...

~~Types of waves~~

~~Properties of waves~~

~~AQA - GCSE Physics ...~~

Physics of Waves and  
Oscillations N. K. Bajaj  
The Media and the  
People , Charlene J.  
Brown, Trevor R.

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Brown, William L.

Rivers, Jan 1, 1978,

Social Science, 472

pages Most people know

the story of Balto, the

world famous dog who

led his dogsled team

through a blizzard to

deliver a

~~The Physics Of Waves~~

~~And Oscillations, 1988,~~

~~N. K. Bajaj ...~~

Everything waves.

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There are familiar, everyday sorts of waves in water, ropes and springs. There are less visible but equally pervasive sound waves and electromagnetic waves. Even more important, though only touched on in this book, is the wave phenomenon of quantum mechanics, built into the fabric of



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our space and time.

Waves And

~~THE PHYSICS OF  
OSCILLATIONS~~ Version date

~~February 15, 2015~~

A crystal lattice of strontium ruthenate responding to various sound waves as the material cools through its superconducting transition. Courtesy: Cornell University.

Superconducting

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materials are traditionally classed into two types: s-wave and d-wave. A third type, p-wave, has long been predicted.

~~g-wave superconductor comes into view~~

~~Physics World~~

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In physics a wave can be  
thought of as a  
disturbance or  
oscillation that travels  
through space-time,

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accompanied by a transfer of energy. Wave motion transfers energy from one point to another, often with no permanent displacement of the particles of the medium—that is, with little or no associated mass transport.

~~Waves | Boundless~~

Physics

The Physics Classroom

*Page 28/33*

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Tutorial presents physics concepts and principles in an easy-to-understand language.

Conceptual ideas develop logically and sequentially, ultimately leading into the mathematics of the topics. Each lesson includes informative graphics, occasional animations and videos, and Check Your

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Understanding sections that allow the user to practice what is taught.

~~Physics Tutorial:~~

~~Vibrations and Waves~~  
Spreading

Depolarizations. In physics, mathematics, and related fields, a wave is a propagating dynamic disturbance (change from equilibrium) of one or

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more quantities,  
sometimes as described  
by a wave equation. In  
physical waves, at least  
two field quantities in  
the wave medium are  
involved.

~~Wave—Wikipedia~~

In classical physics  
diffraction arises  
because of the way in  
which waves propagate;  
this is described by the

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Huygens – Fresnel  
principle and the  
principle of  
superposition of

waves. The propagation  
of a wave can be  
visualized by  
considering every  
particle of the  
transmitted medium on  
a wavefront as a point  
source for a secondary  
spherical wave. The  
wave displacement at



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any subsequent point is  
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