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is a comprehensive
introduction to waves
and oscillations, both
mechanical and
electromagnetic.
Elementary aspects of
matter waves are also
considered. One
objective is to illustrate
the physics involved in
the description and
analysis of waves
through a wide range

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purely mechanical and
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$a = L =$ Standing
waves and resonance
Consider a string,
similar with a guitar
string that is stretched
between First harmonic
(fundamental
frequency) two rigid

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supports (aka nodes). If
the string is plucked, a

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harmonic oscillations,
forced vibrations and
resonance, waves,
superposition of waves,
Fourier analysis,
vibrations of strings
and membranes,
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acoustics of buildings,
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waves, interference

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and diffraction. In all,
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In this sense, the
concept of the
oscillations and waves
is fundamental but is
essential to
understanding the
physics from the
classical mechanics to
the quantum

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The period of
oscillation of an object
in an ideal mass-spring
system is 0.50 sec and
the amplitude is 5.0
cm. What is the speed
at the equilibrium

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point? At equilibrium $x = 0$:
 $E = K + U = mv^2 + \frac{1}{2}kx^2$
 $= K + U = mv^2 + kx^2 = mv^2$
Since $E = \text{constant}$,
at equilibrium ($x = 0$)
the KE must be a
maximum.

Chapter 15 **Oscillations and** **Waves**

Water waves are unusual because waves can have different speeds - wave speed depends on how the wave is

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formed, which is why tsunamis travel much faster than surf waves. Unlike water waves, electromagnetic waves always travel at the same speed (3 hundred million metres per second) and sound waves all travel at the same speed in a given medium (for example, approximately 340 metres per second ...

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Coupled Oscillations of
a Loaded String 90 The
Wave Equation 95. 5
Transverse Wave

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Motion 107. Partial
Differentiation 107
Waves 108 Velocities
in Wave Motion 109
The Wave Equation
110 Solution of the
Wave Equation 112
Characteristic
Impedance of a String
(the string as a forced
oscillator) 115

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Oscillations and Waves

- Why study oscillations and waves?
 - A large fraction of all physical situations

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- involve periodic or oscillatory behavior •
- Motion of the planets •
- Stable mechanical systems •
- Electrical systems •
- Fundamental forces –
- Periodic motion in continuous media •
- Wave propagation •
- Electromagnetic radiation ...

Physics 42200 **Waves & Oscillations**

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The sea waves close to the shore are another obvious example of such waves. In a more narrow sense waves mean periodic movement existing in the media, where at every point we have periodic oscillations in

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time, and the phase of
these oscillations is
periodic in space.

Waves in water far
from the shore in calm
weather are a good
example.

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