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aspects of
matter waves are
also considered.
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to illustrate
the physics

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where ω is the angular frequency of the oscillations, k is the spring constant and m is the mass of the block. At the equilibrium point $x = 0$ so, $a = 0$ also. When the stretch is a

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maximum, a will
be a maximum
too. The
velocity at the
end points will
be zero, and it
is a maximum at
the equilibrium
point.

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The amplitude of a wave is normally defined as the maximum displacement of the particles within the wave from their normal equilibrium positions. For

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water waves, the
amplitude of a
wave is the
distance between
the wave crest
and the normal
water level.

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motion in which
repeats after a

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regular interval
of time is

called periodic
motion. 1. The

periodic motion
in which there

is existence of
a restoring

force and the

body moves along

the same path to

and fro about a

definite point

called

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position/mean
position, is

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2 Preface The
book
"Oscillations
and waves" is an
account of one
semester course,

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PHYSICS-I, given

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for the last

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undergraduate

science and

engineering

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electromagnetic
transmission.
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a discussion on

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light scattering
and the
determination of
surface tension
and viscosity,
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and feedback
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the concept of
the oscillations
and waves is
fundamental but
is essential to
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motion and
simple harmonic
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special type of
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motion is the
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oscillation of a
spring ...

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discusses both the mathematical theory and the physics of phenomena such as waves in fluids, electromagnetic waves, and discrete coupled oscillators in mechanics and electronics.

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damped harmonic
oscillations,
forced
vibrations and
resonance,
waves,
superposition of
waves, Fourier
analysis,
vibrations of

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