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force that restores the object to its equilibrium position is directly proportional to the displacement of the ...

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waves.

Longitudinal
waves. A wiggle
in space...

~back and forth
movement of a
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time... a disturbance that carries energy...

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pages 375–380

page 378 1. How

much force is

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necessary to stretch a spring 0.25 m when the spring constant is 95 N/m? F!

$kx = (95 \text{ N/m})(0.25 \text{ m}) = 24$

N 2. A spring has a spring constant of 56 N/m. How far will it stretch when a block weighing 18 N is

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hung from its

end? $F = kx$ $x = 0.18 \text{ m}$ $F =$

$kx = (56 \text{ N/m})(0.18 \text{ m}) =$

10.1 N

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parallel to the
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(expansion) ...

- See study guide for: - transmission of sound - Human hearing - Noise . THE END .

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Section Review

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14.2 Wave

Properties pages
381–386 page 386

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continued Nearly
all

media—solids,
liquids, and
gases—transmit
longitudinal
waves. 26.

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into pool, it creates waves with small amplitudes. If a swimmer jumps into a pool, waves with large amplitudes are produced.

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question. _____

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of an object in

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simple harmonic motion will change the magnitude of the object's maximum acceleration by what factor? a. one-third c. 3 b. 1 d. 9

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fork completes
312 cycles in 8
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