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Single Degree Of Freedom (SDOF) System •One Coordinate (x) Is Sufficient To Specify The Position Of The Mass At Any Time.
•Several Mechanical And Structural Systems Can Be Idealized As Single-degree-of-freedom Systems. In Many Practical Systems, The Mass Is Distributed, But For A Simple Analysis, It Can 2th, 2024.

VIBRATIONS AND WAVES
Mass-Spring Vibrations Mass Attached To Spring → Stable Equilibrium - Produces A Vibration! - Called “Simple Harmonic Motion” (SHM)
Frequency - The Number Of Vibrations Per Second - Measured In Units Called Hertz (Hz) - “Period” = Seconds Per Vibration Amplitude - “Size” Of Vibration → How Far Away From Equilibrium? - Bigger Amplitude → More Energy In Vibration 5th, 2024
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Section Quiz: Simple Harmonic Motion Write The Letter Of The Correct Answer In The Space Provided. ____ 1. According To Hooke’s Law, The Force Exerted By A Spring On An Object Is Proportional To A. The Mass Of The Object. B. The Displacement Of The Spring. C. The Length Of The Spring. D. The Volume Of The Object. ____ 2. 5th, 2024
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21. A Periodic Longitudinal Wave That Has A

Frequency Of 20.0 Hz Travels Along A Coil Spring. If The Distance Between Successive Compressions Is 0.600 M, What Is The Speed Of The Wave? $v = \lambda f = (0.600 \text{ M})(20.0 \text{ Hz}) = 12.0 \text{ M/s}$ Section Review 14.2 Wave Properties Pages 381–386 Page 386 22. Speed In Different Media If You Pull On 2th, 2024.

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