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#### Chapter 15 Wave Motion

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Conditions for simple harmonic motion; When the body is displaced from equilibrium, there must exist a restoring force (a force that wants to pull the body back to equilibrium). The magnitude of the restoring force must be proportional to the displacement of the body and acts towards the equilibrium. 4.2 - Travelling waves. Travelling waves

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4.3 Chapter Summary. This chapter presented dynamic equations for the longitudinal motion of the vehicle. The two major elements of the longitudinal dynamic model were the vehicle dynamics and the driveline dynamics.

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Newton's third law of motion states that the force pair acting on different objects consists of two forces that. ... An 1000-kg car traveling at 30 m/s takes 4 m to stop under full braking. The same car under similar road conditions, traveling at 60 m/s, takes \_\_\_\_ m to stop under full braking. ... For a longitudinal mechanical wave, the ...

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