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mechanical dynamic systems.ME 563 MECHANICAL VIBRATIONS - Purdue EngineeringCh. 1: Introduction of Mechanical Vibrations Modeling Spring-Mass Model Mechanical Energy = Potential + Kinetic From the energy point of view, vibration is caused by the exchange of potential and kinetic energy. When all energy goes into PE, the motion stops. When all energy goes into KE, max velocity happens.Ch. 1: Introduction of Mechanical Vibrations ModelingIntroduction to Mechanical Vibrations Vibration is the motion of a particle or a body or system of connected bodies displaced from a position of equilibrium. Most vibrations are

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1 Introduction to Mechanical Vibrations
1.1 Bad vibrations, good vibrations, and the role of analysis
Vibrations are oscillations in mechanical dynamic systems.

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Energy = Potential + Kinetic From the energy point of view, vibration is caused by the exchange of potential and kinetic energy. When all energy goes into PE, the motion stops. When all energy goes into KE, max velocity happens.

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This note explains the
following topics:

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Linearization, Free

Undamped Vibration,

Measurement and

Design Consideration,

Forced Undamped

Vibration, Force

Damped Vibration,

Free Undamped

Vibration, Response to

Free Undamped

Vibration, Design for

Vibration Suppression
or Absorbers, Vibration
Testing.

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Vibrations may be thought of as a wave phenomenon, meaning that each vibration wave has an associated crest and trough. If two vibrations of the same wavelength/frequency are superimposed (combined), they will either add to each other, if they are in phase (the crests and troughs match), or they will tend to cancel each other, if out of phase (the crests from one wave match the troughs from another).

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The title more or less covers the idea -- the book is well written. Steidel presents the topics in a way the reader can absorb the material without feeling overwhelmed by the math involved.

The book covers only introductory material, also including multi degree of freedom systems, continuous systems, and random vibrations.

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