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### **Theory Of Vibration**

Vibratory systems comprise means for storing potential energy (spring), means for storing kinetic energy (mass or inertia), and means by which the energy is gradually lost (damper). The vibration of a system involves the alternating transfer of energy between its potential and kinetic forms.

### **Ralph E. Blake - Cooper Union**

Concepts like free vibration, vibration with damping, forced vibration, resonance are explained in this video... A practical introduction to Theory of vibration.

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The aim of this book is to impart a sound understanding, both physical and mathematical, of the fundamental theory of vibration and its applications. The book presents in a simple and systematic manner techniques that can easily be applied to the analysis of vibration of mechanical and structural systems.

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1. Introduction. 2. Harmonic Motion. 3. Vibration Model. 4. Equation of Motion: Natural Frequency. 5. Viscously Damped Free Vibration. 6.

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