



# Structural Dynamics: Theory and Applications

By Tedesco, Joseph W.; McDougal, William G.; Ross, C. Allen

Prentice Hall, 1998. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1. Basic Concepts. Introduction to Structural Dynamics. Types of Dynamic Loads. Sources of Dynamic Loads. Distinguishing Features of a Dynamic Problem. Methodology for Dynamic Analysis. Types of Structural Vibration. Organization of the Text. Systems of Units. References. I. SINGLE-DEGREE-OF-FREEDOM (SDOF) SYSTEMS. 2. Equation of Motion and Natural Frequency. Fundamental Components of a Vibrating System. D'Alembert's Principle of Dynamic Equilibrium. The Energy Method. The Principle of Virtual Displacements. References. Notation. Problems. 3. Undamped Free Vibration. Simple Harmonic Motion. Interpretation of the Solution. Equivalent Stiffness. Rayleigh Method. References. Notation. Problems. 4. Damped Free Vibration. Free Vibration with Viscous Damping. Logarithmic Decrement. Hysteresis Damping. Coulomb Damping. References. Notation. Problems. 5. Response to Harmonic Excitation. Forced Harmonic Response of Undamped Systems. Beating and Resonance. Forced Harmonic Vibrations with Viscous Damping. Effect of Damping Factor on Steady-State Response and Phase Angle. Harmonic Excitation Caused by Rotating Unbalance. Base Excitation. Vibration Isolation and Transmissibility. References. Notation. Problems. 6. Response to Periodic and Arbitrary Dynamic Excitation. Response to Periodic Excitation. Response to Unit Impulse. Duhamel Integral. Response to Arbitrary Dynamic Excitation. Response Spectrum. References. Notation. Problems. 7. Numerical Evaluation of...

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