

Mechanical Vibration and Diagnostics

Review of Single degree of freedom systems: systems with more than one degree of freedom.

Continuous systems

Transient Vibrations, self excited vibrations, elementary random and nonlinear vibrations

Vibration measuring instruments

Electromechanical Analysis

Applications to Machine Tools, Foundations, etc

References:

1. G.K. Grover, Mechanical Vibrations, Nemchand & Bros, Roorkee -1996.
2. S. Graham Kelley, Fundamental of Mechanical Vibrations, McGraw Hill international, 1993.
3. W.I. Thomson, Theory of Vibration with Application Prentice Hall, 1975.
4. R.A. Anderson, Fundamentals of Vibration, Amerind Pub Co., 1972.
5. S.S. Rao, Mechanical Vibrations, Addison - Wesley Pub. Co., 1995.