

## Engineering Vibration Inman D J Pearson India

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### ***Introduction to Mechanical Vibrations***

***Unit 5.1- Numerical Methods: Motivation*** Video 1 in a 6-part series introducing numerical methods for solving dynamic responses. References: Chopra, A. K. (1995).

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**Unit 5.6- Numerical Methods: Practical Considerations** Video 6 in a 6-part series introducing numerical methods for solving dynamic responses. Here, we discuss practical ...

**Unit 5.5-Numerical Methods: Euler and Runge-Kutta Method** Video 5 in a 6-part series introducing numerical methods for solving dynamic responses. Here, we discuss the Euler and ...

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**Unit 5.4-Numerical Methods: Newmark's Method** Video 4 in a 6-part series introducing numerical methods for solving dynamic responses. Here, we discuss Newmark's Methods.

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**Differential Equations - 41 - Mechanical Vibrations (Modelling)** Deriving the 2nd order differential equation for **vibrations**.

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**Mechanical Vibraton: Mass-Spring-Damper Model** This video explains how to model a vibrating system into mass-spring-damper elements. It is thus important to identify what ...

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**Ch1-3 Mechanical Vibration: Linearization** The mass, spring dan damper component in **vibration** are assumed to behave linearly and thus the concept of superposition ...

**Mechanical Vibration: Equation of Motion** The video explains the "equation of motion" in a vibrating system. The case is for free **vibration**.

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