

# NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Civil Engineering - NOC:Soil Dynamics

Subject Co-ordinator - Prof. Paramita Bhattacharya

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction and Theory of Vibrations
- Lecture 2 - Theory of Vibrations
- Lecture 3 - Single Degree of Freedom System (SDOF) - Part 1
- Lecture 4 - Single Degree of Freedom System (SDOF) - Part 2
- Lecture 5 - Single Degree of Freedom System (SDOF) - Part 3
- Lecture 6 - Single Degree of Freedom System (SDOF) - Part 4
- Lecture 7 - Single Degree of Freedom System (SDOF) - Part 5
- Lecture 8 - Single Degree of Freedom System (SDOF) - Part 6
- Lecture 9 - Single Degree of Freedom System (SDOF) - Part 7
- Lecture 10 - Single Degree of Freedom System (SDOF) - Part 8
- Lecture 11 - Single Degree of Freedom System (SDOF) - Part 9
- Lecture 12 - Multiple Degree of Freedom System (MDOF) - Part 1
- Lecture 13 - Multiple Degree of Freedom System (MDOF) - Part 2
- Lecture 14 - Multiple Degree of Freedom System (MDOF) - Part 2
- Lecture 15 - Multiple Degree of Freedom System (MDOF) - Part 3
- Lecture 16 - Multiple Degree of Freedom System (MDOF) - Part 5
- Lecture 17 - Wave Propagation in An Elastic Rod
- Lecture 18 - Wave Propagation in An Elastic Rod of Finite Length
- Lecture 19 - Wave Propagation in An Infinite Elastic Medium
- Lecture 20 - Wave Propagation in An Infinite and Semi-Infinite Elastic Medium
- Lecture 21 - Determination of Dynamic Properties of Soils (Laboratory Tests) - Part 1
- Lecture 22 - Determination of Dynamic Properties of Soils (Laboratory Tests) - Part 2
- Lecture 23 - Determination of Dynamic Properties of Soils (Laboratory Tests) - Part 3
- Lecture 24 - Determination of Dynamic Properties of Soils (Laboratory Tests) - Part 4
- Lecture 25 - Determination of Dynamic Properties of Soils (Laboratory Tests) - Part 5
- Lecture 26 - Determination of Dynamic Properties of Soils (Seismic Reflection Survey)
- Lecture 27 - Determination of Dynamic Properties of Soils (Seismic Reflection Survey)
- Lecture 28 - Determination of Dynamic Properties of Soils (Seismic Refraction Survey-Inclined Layering)
- Lecture 29 - Determination of Dynamic Properties of Soils (Numerical Problems on Seismic Reflection)

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- Lecture 30 - Determination of Dynamic Properties of Soils (Block Vibration Test)
- Lecture 31 - Liquefaction of Soils - Part 1
- Lecture 32 - Liquefaction of Soils - Part 2
- Lecture 33 - Liquefaction of Soils - Part 3
- Lecture 34 - Liquefaction of Soils - Part 4
- Lecture 35 - Liquefaction of Soils - Part 5
- Lecture 36 - Machine Foundations (Design Criteria)
- Lecture 37 - Analysis of Machine Foundations (Elastic Half Space Method) - Part 1
- Lecture 38 - Analysis of Machine Foundations (Elastic Half Space Method) - Part 2
- Lecture 39 - Analysis of Machine Foundations (Elastic Half Space Method) - Part 3
- Lecture 40 - Analysis of Machine Foundations (Elastic Half Space Method) - Part 4
- Lecture 41 - Analysis of Machine Foundations (Linear Elastic Weightless Spring Method - Part 1)
- Lecture 42 - Analysis of Machine Foundations (For Reciprocating Machines) - Part 2
- Lecture 43 - Analysis of Machine Foundations (For Reciprocating Machines) - Part 3
- Lecture 44 - Analysis of Machine Foundations (For Reciprocating Machines) - Part 4
- Lecture 45 - Analysis of Machine Foundations (For Impact Type Machines) - Part 1
- Lecture 46 - Analysis of Machine Foundations (For Impact Type Machines) - Part 2
- Lecture 47 - Analysis of Machine Foundations (For Rotary Machines) - Part 1
- Lecture 48 - Analysis of Machine Foundations (For Rotary Machines) - Part 2
- Lecture 49 - Analysis of Machine Foundations (For Rotary Machines) - Part 3
- Lecture 50 - Analysis of Machine Foundations (For Rotary Machines) - Part 3 (Continued...)
- Lecture 51 - Analysis of Pile Foundation Under Dynamic Loading - Part I
- Lecture 52 - Analysis of Pile Foundation Under Dynamic Loading - Part II
- Lecture 53 - Analysis of Pile Foundation Under Dynamic Loading - Part III
- Lecture 54 - Analysis of Pile Foundation Under Dynamic Loading - Part IV
- Lecture 55 - Analysis of Pile Foundation Under Dynamic Loading - Part V
- Lecture 56 - Isolation of Vibration - Part 1
- Lecture 57 - Isolation of Vibration - Part 2
- Lecture 58 - Isolation of Vibration - Part 3
- Lecture 59 - Isolation of Vibration - Part 4
- Lecture 60 - Summary