

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

NPTEL Video Course - Civil Engineering - NOC:Earthquake Geotechnical Engineering

Subject Co-ordinator - Prof. B.K. Maheshwari

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Introduction  
Lecture 2 - Introduction (Continued...)  
Lecture 3 - Engineering Seismology  
Lecture 4 - Engineering Seismology (Continued...)  
Lecture 5 - Strong Ground Motion  
Lecture 6 - Strong Ground Motion (Continued...)  
Lecture 7 - Seismic Hazard Analysis  
Lecture 8 - Seismic Hazard Analysis (Continued...)  
Lecture 9 - Wave Propagation  
Lecture 10 - Wave Propagation (Continued...)  
Lecture 11 - Stress Conditions  
Lecture 12 - Field Tests  
Lecture 13 - Field Tests (Continued...)  
Lecture 14 - Field Tests (Continued...)  
Lecture 15 - Laboratory Tests  
Lecture 16 - Laboratory Tests (Continued...)  
Lecture 17 - Laboratory Tests (Continued...)  
Lecture 18 - Constitutive Relationships of Soils  
Lecture 19 - Constitutive Relationships of Soils (Continued...)  
Lecture 20 - Constitutive Relationships of Soils (Continued...)  
Lecture 21 - One-Dimensional  
Lecture 22 - One-Dimensional (Continued...)  
Lecture 23 - One-Dimensional (Continued...)  
Lecture 24 - Two Dimensional  
Lecture 25 - Soil-Structure Interaction  
Lecture 26 - Soil-Structure Interaction (Continued...)  
Lecture 27 - Local Site Effects  
Lecture 28 - Local Site Effects (Continued...)  
Lecture 29 - Local Site Effects (Continued...)

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- Lecture 30 - Local Site Effects (Continued...)
- Lecture 31 - Introduction
- Lecture 32 - Liquefaction Susceptibility
- Lecture 33 - Liquefaction Susceptibility (Continued...)
- Lecture 34 - Initiation of Liquefaction
- Lecture 35 - Initiation of Liquefaction (Continued...)
- Lecture 36 - Initiation of Liquefaction (Continued...)
- Lecture 37 - Initiation of Liquefaction (Continued...)
- Lecture 38 - Initiation of Liquefaction (Continued...)
- Lecture 39 - Initiation of Liquefaction (Continued...)
- Lecture 40 - Effects of Liquefaction
- Lecture 41 - Slope Stability Analysis
- Lecture 42 - Slope Stability Analysis (Continued...)
- Lecture 43 - Slope Stability Analysis (Continued...)
- Lecture 44 - Slope Stability Analysis (Continued...)
- Lecture 45 - Slope Stability Analysis (Continued...)
- Lecture 46 - Introduction to Retaining Walls
- Lecture 47 - Static Pressure on Retaining Walls
- Lecture 48 - Static Pressure on Retaining Walls (Continued...)
- Lecture 49 - Design of Retaining Walls
- Lecture 50 - Design of Retaining Walls (Continued...)
- Lecture 51 - Slope Stability and Retaining Walls: Design of Retaining Walls
- Lecture 52 - Ground Improvement Techniques: Types of GIT
- Lecture 53 - Ground Improvement Techniques: Types of GIT
- Lecture 54 - Ground Improvement Techniques: Types of GIT
- Lecture 55 - Ground Improvement Techniques: Geosynthetics
- Lecture 56 - Ground Improvement Techniques: Geosynthetics
- Lecture 57 - Ground Improvement Techniques: Vertical Drains
- Lecture 58 - Ground Improvement Techniques: Vertical Drains
- Lecture 59 - Ground Improvement Techniques: Reinforced Fibers
- Lecture 60 - Ground Improvement Techniques: Verification and IS Code