

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

NPTEL Video Course - Civil Engineering - NOC:Expansive Soil

Subject Co-ordinator - Prof. Anil Kumar Mishra

Co-ordinating Institute - IIT - Guwahati

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

- Lecture 1 - Formation of soil
- Lecture 2 - Index properties and classification of soil
- Lecture 3 - Engineering properties of soil - I
- Lecture 4 - Engineering properties of soil - II
- Lecture 5 - Clay mineralogy
- Lecture 6 - Properties of clay particles
- Lecture 7 - Definition, type and behaviour
- Lecture 8 - Mechanism of soil-water interaction
- Lecture 9 - Swelling of expansive soil
- Lecture 10 - Factors controlling DDL thickness
- Lecture 11 - Determination of swelling properties
- Lecture 12 - Classification and prediction
- Lecture 13 - Factors controlling swelling of soil
- Lecture 14 - Shrinkage behaviour of soil
- Lecture 15 - Factors controlling shrinkage behavior of soils
- Lecture 16 - Measurement of various shrinkage characteristics of soil
- Lecture 17 - Cyclic Swelling-Shrinkage Behaviour of Soil
- Lecture 18 - Thermo-Mechanical-Hydraulic-Chemical Behaviour - I
- Lecture 19 - Thermo-Mechanical-Hydraulic-Chemical Behaviour - II
- Lecture 20 - Thermo-Mechanical-Hydraulic-Chemical Behaviour - III
- Lecture 21 - Mechanical Methods
- Lecture 22 - Hydraulic methods
- Lecture 23 - Chemical methods - 1
- Lecture 24 - Chemical methods - 2
- Lecture 25 - By inclusion or confinement
- Lecture 26 - Foundation on expansive soil
- Lecture 27 - Use of expansive soil for various geotechnical engineering applications
- Lecture 28 - Closure lecture

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