

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

NPTEL Video Course - Civil Engineering - NOC:Structural Geology

Subject Co-ordinator - Prof. Santanu Misra

Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Introduction - I
Lecture 2 - Introduction - II
Lecture 3 - Structural Elements and Measurements
Lecture 4 - How to measure strike-dip-pitch/rake-plunge
Lecture 5 - Stereographic Projection in Structural Geology
Lecture 6 - Concept of Strain and Deformation - Part I
Lecture 7 - Concept of Strain and Deformation - Part II
Lecture 8 - Strain Measurement
Lecture 9 - Stress - Part I
Lecture 10 - Stress - Part II
Lecture 11 - Basics of Rheology - Part I
Lecture 12 - Basics of Rheology - Part II
Lecture 13 - Basics of Rheology - Part III
Lecture 14 - Complex Rheology
Lecture 15 - Role of External Parameters
Lecture 16 - Crystal Defects and associated structures
Lecture 17 - Cataclastic Deformation
Lecture 18 - Intracrystalline Deformation
Lecture 19 - Diffusive Mass Transfer
Lecture 20 - Planar Fabrics (Foliation/ Cleavage/ Schistosity) - I
Lecture 21 - Planar Fabrics (Foliation/ Cleavage/ Schistosity) - II
Lecture 22 - Linear Fabrics (Lineation)
Lecture 23 - Folds and Folding
Lecture 24 - Folds and Folding
Lecture 25 - Folds and Folding
Lecture 26 - Folds and Folding
Lecture 27 - Porphyroblasts
Lecture 28 - Boudinage and Pinch-and-Swell Structures - I
Lecture 29 - Boudinage and Pinch-and-Swell Structures - II

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- Lecture 30 - Stereonet Problem I
- Lecture 31 - Stereonet Problem II
- Lecture 32 - Stereonet Problem III
- Lecture 33 - Stereonet Problem IV
- Lecture 34 - Stereonet Problem V
- Lecture 35 - Fractures and Joints - I
- Lecture 36 - Fractures and Joints - II
- Lecture 37 - Faults and Faulting - I
- Lecture 38 - Stereonet Problem VI - Fold geometry from interlimb angle and fold axes
- Lecture 39 - Stereonet Problem VII - Fold geometry from pitch of the limbs on another plane
- Lecture 40 - Faults and Faulting - II
- Lecture 41 - Ductile Shear Zones - I
- Lecture 42 - Ductile Shear Zones - II
- Lecture 43 - Basic of Litho-Structural Mapping
- Lecture 44 - Paleostress analysis
- Lecture 45 - Graphical Problem
- Lecture 46 - Three point problem
- Lecture 47 - Construction of Topographic Profile
- Lecture 48 - Construction of Geological Cross-section