

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

NPTEL Video Course - Mechanical Engineering - NOC:Applied Elasticity

Subject Co-ordinator - Prof. Soham Roychowdhury

Co-ordinating Institute - IIT - Bhubaneshwar

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

Lecture 1 - Tensor Algebra - I
Lecture 2 - Tensor Algebra - II
Lecture 3 - Tensor Algebra - III
Lecture 4 - Tensor Calculus - I
Lecture 5 - Tensor Calculus - II
Lecture 6 - Kinematics of Deformation - I
Lecture 7 - Kinematics of Deformation - II
Lecture 8 - Strain Measures - I
Lecture 9 - Strain Measures - II
Lecture 10 - Strain Measures - III
Lecture 11 - Stress Measures - I
Lecture 12 - Stress Measures - II
Lecture 13 - Stress Measures - III
Lecture 14 - Balance Laws - I
Lecture 15 - Balance Laws - II
Lecture 16 - Constitutive Equations - I
Lecture 17 - Constitutive Equations - II
Lecture 18 - Constitutive Equations - III
Lecture 19 - Constitutive Equations - IV
Lecture 20 - Constitutive Equations - V
Lecture 21 - Field Equations of Elasticity
Lecture 22 - Displacement Formulation
Lecture 23 - Stress Formulation
Lecture 24 - Elasticity Theorems - I
Lecture 25 - Elasticity Theorems - II
Lecture 26 - Two Dimensional Formulation
Lecture 27 - Plane Stress Formulation
Lecture 28 - Plane Strain Formulation
Lecture 29 - Anti-plane Strain and Stress Functions

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- Lecture 30 - Stress Functions
- Lecture 31 - Bending of Beams - I
- Lecture 32 - Bending of Beams - II
- Lecture 33 - Bending of Beams - III
- Lecture 34 - Bending of Beams - IV
- Lecture 35 - Bending of Beams - V
- Lecture 36 - Torsion Problems - I
- Lecture 37 - Torsion Problems - II
- Lecture 38 - Torsion Problems - III
- Lecture 39 - Torsion Problems - IV
- Lecture 40 - Torsion Problems - V
- Lecture 41 - Field Equations in Polar Coordinates
- Lecture 42 - General Solutions in Polar Coordinates
- Lecture 43 - Thick Cylinder Problems
- Lecture 44 - Bending of Curved Beams - I
- Lecture 45 - Bending of Curved Beams - II
- Lecture 46 - Semi-infinite Domain Problems - I
- Lecture 47 - Semi-infinite Domain Problems - II
- Lecture 48 - Semi-infinite Domain Problems - III
- Lecture 49 - Semi-infinite Domain Problems - IV
- Lecture 50 - Semi-infinite Domain Problems - V
- Lecture 51 - Semi-infinite Domain Problems - VI
- Lecture 52 - Stress Concentration Problems - I
- Lecture 53 - Stress Concentration Problems - II
- Lecture 54 - Notch and Crack Problems
- Lecture 55 - Axisymmetric Problems with Body Force
- Lecture 56 - Circular Disk under Diametrical Compression
- Lecture 57 - Contact Problems - I
- Lecture 58 - Contact Problems - II
- Lecture 59 - Thermo-elasticity - I
- Lecture 60 - Thermo-elasticity - II