

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

NPTEL Video Course - Metallurgy and Material Science - NOC:Mechanical Behaviour of Materials - Part II

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Co-ordinating Institute - IIT - Kanpur

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

- Lecture 1 - Theoretical Strength
- Lecture 2 - Stress Based Approach (Inglis)
- Lecture 3 - Energy Based Approach (Griffith)
- Lecture 4 - Mode of Deformation and Stress Distribution Ahead of Crack Tip
- Lecture 5 - Stress Triaxiality
- Lecture 6 - Plastic Zone Size
- Lecture 7 - Plastic Zone Size and Shape (Continued...)
- Lecture 8 - Stress Intensity Factors for Different Geometries
- Lecture 9 - Fracture Toughness
- Lecture 10 - Fracture Toughness Measurement
- Lecture 11 - Fracture Mechanisms
- Lecture 12 - Ductile Fracture Mechanisms
- Lecture 13 - Ductile Fracture Mechanisms_Tunneling
- Lecture 14 - Cleavage Fracture
- Lecture 15 - Fracture Mechanisms (Images)
- Lecture 16 - Fatigue (Stress Parameters)
- Lecture 17 - Fatigue Testing (S-N curve)
- Lecture 18 - Low and High Cycle Fatigue
- Lecture 19 - Fatigue Crack Initiation
- Lecture 20 - Fatigue Crack Propagation
- Lecture 21 - Fatigue Striations, Beachmarks and Images
- Lecture 22 - Deformation of Composites
- Lecture 23 - Deformation of Composites (Continued...)
- Lecture 24 - Toughening of Ceramics
- Lecture 25 - Fracture in Polymers
- Lecture 26 - Creep Fundamentals
- Lecture 27 - Creep Models

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