

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

NPTEL Video Course - Metallurgy and Material Science - NOC:Creep Deformation of Materials

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Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Importance of studying creep
Lecture 2 - Basics of plastic deformation and characteristics of dislocations - Part 1
Lecture 3 - Basics of plastic deformation and characteristics of dislocations - Part 2
Lecture 4 - Basics of plastic deformation and characteristics of dislocations - Part 3
Lecture 5 - Creep and different factors that influence creep deformation - Part 1
Lecture 6 - Creep and different factors that influence creep deformation - Part 2
Lecture 7 - Creep and different factors that influence creep deformation - Part 3
Lecture 8 - Creep and different factors that influence creep deformation - Part 4
Lecture 9 - Creep and different factors that influence creep deformation - Part 5
Lecture 10 - Creep and different factors that influence creep deformation - Part 6
Lecture 11 - Mechanisms of Creep - Part 1
Lecture 12 - Mechanisms of Creep - Part 2
Lecture 13 - Mechanisms of Creep - Part 3
Lecture 14 - Mechanisms of Creep - Part 4
Lecture 15 - Mechanisms of Creep - Part 5
Lecture 16 - Transitions in Creep Mechanisms and Creep Constitutive Equation
Lecture 17 - Deformation Mechanism Maps - Part 1
Lecture 18 - Deformation Mechanism Maps - Part 2
Lecture 19 - Modeling the Useful Creep Life of Materials/Components - Part 1
Lecture 20 - Modeling the Useful Creep Life of Materials/Components - Part 2
Lecture 21 - Modeling the Useful Creep Life of Materials/Components - Part 3
Lecture 22 - Creep Testing Methods - Part 1
Lecture 23 - Creep Testing Methods - Part 2
Lecture 24 - Improving Creep Resistance of Materials