

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

NPTEL Video Course - Mechanical Engineering - NOC:Introduction to Soft Matter

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Co-ordinating Institute - IISc - Bangalore

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

Lecture 1 - Introduction
Lecture 2 - Deborah number
Lecture 3 - Response of Elastic solid
Lecture 4 - Response of Viscous fluid
Lecture 5 - Viscoelastic material
Lecture 6 - Creep and stress relaxation
Lecture 7 - Creep and stress relaxation functions
Lecture 8 - Linearity
Lecture 9 - Mechanical Analogues
Lecture 10 - Tutorial
Lecture 11 - Atoms and bonds
Lecture 12 - Interatomic bonds
Lecture 13 - Polymers
Lecture 14 - Polymers (Continued...)
Lecture 15 - Polymers (Continued...)
Lecture 16 - Freely jointed model
Lecture 17 - Constitutive equations
Lecture 18 - Constitutive equations (Continued...)
Lecture 19 - Constitutive equations (Continued...)
Lecture 20 - Viscoelastic effects
Lecture 21 - Lab Session
Lecture 22 - Polymer concentrations
Lecture 23 - Lagrangian and Eulerian perspectives
Lecture 24 - Maxwell model
Lecture 25 - Maxwell model (Continued...)
Lecture 26 - Kelvin-Meyer-Voigt model
Lecture 27 - Three parameter model
Lecture 28 - Three parameter model (Continued...)
Lecture 29 - Three parameter model (Continued...)

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- Lecture 30 - Jefferey's model
- Lecture 31 - Two Maxwell model
- Lecture 32 - N-Maxwell model
- Lecture 33 - N-Maxwell model (Continued...)
- Lecture 34 - N-Kelvin Meyer Voigt model
- Lecture 35 - Constitutive modelling
- Lecture 36 - Objectivity
- Lecture 37 - Objectivity
- Lecture 38 - Sinusoidal oscillations
- Lecture 39 - Sinusoidal oscillations (Continued...)
- Lecture 40 - Sinusoidal oscillations (Continued...)
- Lecture 41 - Summary
- Lecture 42 - Tutorial
- Lecture 43 - Tutorial (Continued...)