

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

NPTEL Video Course - Chemical Engineering - NOC:Polymer Process Engineering

Subject Co-ordinator - Prof. Shishir Sinha

Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Introduction to Polymers
- Lecture 2 - Polymers and Polymerization Techniques
- Lecture 3 - Characteristics of Polymers - I
- Lecture 4 - Characteristics of Polymers - II
- Lecture 5 - Applications of Polymers
- Lecture 6 - Thermodynamics of Polymer Systems - I
- Lecture 7 - Thermodynamics of Polymer Systems - II
- Lecture 8 - Thermodynamics of Polymer Systems - III
- Lecture 9 - Thermodynamics of Polymer Systems - IV
- Lecture 10 - Thermodynamics of Polymer Systems - V
- Lecture 11 - Applied polymer rheology: Fluid behavior
- Lecture 12 - Applied polymer rheology: Structure and properties of deforming polymer
- Lecture 13 - Applied polymer rheology: Flow of polymers with supermolecular structure
- Lecture 14 - Applied polymer rheology: Transport phenomena
- Lecture 15 - Applied polymer rheology: Rheometry
- Lecture 16 - Heat Transfer Phenomenon in polymer systems: Introduction
- Lecture 17 - Heat Transfer Phenomenon in polymer systems: Thermal properties
- Lecture 18 - Heat Transfer Phenomenon in polymer systems: Thermal properties and conduction
- Lecture 19 - Heat Transfer Phenomenon in polymer systems: Conduction and Convection
- Lecture 20 - Heat Transfer Phenomenon in polymer systems: Convection and Radiation
- Lecture 21 - Mass Transfer Phenomenon in Polymers: Introduction
- Lecture 22 - Steady State Diffusion in Polymers
- Lecture 23 - Mass transfer coefficient and dimensionless numbers
- Lecture 24 - Mass transfer phenomenon in polymers: Laminar flow and boundary layer conditions
- Lecture 25 - Mass transfer phenomenon in polymers: Diffusivity and solubility of gases
- Lecture 26 - Chemical reaction engineering in polymers: Introduction
- Lecture 27 - Chemical reaction engineering in polymers: Condensation (Step-growth) polymerization
- Lecture 28 - Chemical reaction engineering in polymers: Addition (Chain-Growth) Polymerization - I
- Lecture 29 - Chemical reaction engineering in polymers: Addition (Chain-Growth) Polymerization - II

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- Lecture 30 - Chemical reaction engineering in polymers: Addition (Chain-Growth) Polymerization - III
- Lecture 31 - Injection Moulding - 1
- Lecture 32 - Injection Moulding - 2
- Lecture 33 - Extrusion
- Lecture 34 - Blow moulding
- Lecture 35 - Calendaring and Fiber spinning
- Lecture 36 - Polymer Testing - 1
- Lecture 37 - Polymer testing - 2 (Standardization, Sample preparation)
- Lecture 38 - Polymer testing - 3
- Lecture 39 - Polymer testing - 4 (Measuring of rheological properties)
- Lecture 40 - Polymer testing - 5 (Mechanical properties; Hardness, tensile and compression)
- Lecture 41 - Polymer testing - 6
- Lecture 42 - Polymer Testing - 7
- Lecture 43 - Polymer Testing - 8
- Lecture 44 - Polymer Testing - 9
- Lecture 45 - Polymer Testing - 10
- Lecture 46 - Polymeric Materials Used in Electronics
- Lecture 47 - Polymers in Electronics: Epoxies
- Lecture 48 - Epoxies, Phenoxies, and Silicones
- Lecture 49 - Polyimides
- Lecture 50 - Fluorocarbons, Polyxylyenes, and Polyesters
- Lecture 51 - Polymer Materials in Electronics
- Lecture 52 - Functions of Coatings - I
- Lecture 53 - Functions of Coatings - II
- Lecture 54 - Natural fibers reinforced composites - I
- Lecture 55 - Natural fibers reinforced composites - II
- Lecture 56 - NFRCs and Polymer Applications
- Lecture 57 - Polymer Applications in Building Materials
- Lecture 58 - Polymer applications in different fields: Polymer in textile
- Lecture 59 - Polymer applications in different fields: Polymer in cosmetics
- Lecture 60 - Polymer applications in different fields: Polymer and food packaging