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

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NPTEL Video Course - Mechanical Engineering - NOC: Processing of Polymers and Polymer Composites
Subject Co-ordinator - Dr. Inderdeep Singh
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to course
Lecture 2 - Engineering materials and processing techniques
Lecture 3 - Thermoplastics and thermosets
Lecture 4 - Processing of polymers
Lecture 5 - Thermoforming processes
Lecture 6 - Extrusion - I
Lecture 7 - Extrusion - II
Lecture 8 - Compression molding
Lecture 9 - Injection molding - I
Lecture 10 - injection molding - II
Lecture 11 - Transfer molding
Lecture 12 - Rotational molding
Lecture 13 - Blow molding
Lecture 14 - Composite materials
Lecture 15 - Classification of composite materials
Lecture 16 - Processing of polymer composites
Lecture 17 - Hand lay-up
Lecture 18 - Spray lay-up
Lecture 19 - Compression molding
Lecture 20 - Injection molding
Lecture 21 - Reaction injection molding
Lecture 22 - Autoclave molding
Lecture 23 - Resin transfer molding
Lecture 24 - Filament winding
Lecture 25 - Pultrusion process
Lecture 26 - Sheet molding
Lecture 27 - Pre-pregging and challenges in primary processing of composites
Lecture 28 - Secondary processing of polymer composites
Lecture 29 - Joining of polymer composites
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Lecture 30 - Adhesive joining
Lecture 31 - Mechanical joining
Lecture 32 - Microwave joining
Lecture 33 - Induction and resistance welding
Lecture 34 - Drilling of polymer matrix composites - I
Lecture 35 - Drilling of polymer matrix composites - II
Lecture 36 - Methods to prevent drilling induced damage
Lecture 37 - Non-conventional drilling
Lecture 38 - Process simulation of secondary processing
Lecture 39 - Intelligent drilling of polymer matrix composites
Lecture 40 - Web based tools for polymer matrix composites
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