NPTEL Video Course - Mechanical Engineering - NOC:Mathematical Modeling of Manufacturing Processes

Subject Co-ordinator - Prof. Swarup bag

Co-ordinating Institute - IIT - Guwahati

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

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Lecture 30 - Principle of surface and coating technologies
Lecture 31 - Principle and development of additive manufacturing technologies - 1
Lecture 32 - Principle and development of additive manufacturing technologies - 2
Lecture 33 - Fundamentals of heat treatment
Lecture 34 - Evaluation of microstructural properties and residual stress
Lecture 35 - Down-scaling of conventional manufacturing processes and Micro-to-nano manufacturing
Lecture 36 - Packaging, micro-finishing and micro-manufacturing processes
Lecture 37 - Processing and shaping of non-metals and bio-materials
Lecture 38 - Principle of glass and ceramics processing and their shaping

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