

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

NPTEL Video Course - Metallurgy and Material Science - NOC:Nanomaterials and their Properties

Subject Co-ordinator - Prof. Krishanu Biswas

Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Nanomaterials: An Overview - Part I
Lecture 2 - Nanomaterials: An Overview - Part II
Lecture 3 - Nanomaterials: Hierarchial Nanostructures - I
Lecture 4 - Nanomaterials: Hierarchial Nanostructures - II
Lecture 5 - Nanomaterials: Surfaces and Interfaces - I
Lecture 6 - Nanomaterials: Surfaces and Interfaces - I (Continued...)
Lecture 7 - Nanomaterials: Surfaces - I
Lecture 8 - Nanomaterials: Magic Numbers
Lecture 9 - Thermodynamics of Nanomaterials
Lecture 10 - Surfaces and Interfaces - II
Lecture 11 - Thermodynamics of Nanomaterials
Lecture 12 - Surfaces and Interfaces - II (Continued...)
Lecture 13 - Nanophase Diagrams
Lecture 14 - Effect of Size on Phase Diagrams
Lecture 15 - Synthesis of Nanomaterials
Lecture 16 - Synthesis Routes of Nanomaterials - II
Lecture 17 - Mechanical Properties of Nanomaterials - I
Lecture 18 - Mechanical Properties of Nanomaterials - II
Lecture 19 - Thermal Properties of Nanomaterials - I
Lecture 20 - Thermal Properties of Nanomaterials - II
Lecture 21 - Thermal Properties of Nanomaterials - III
Lecture 22 - Thermal Properties of Nanomaterials - III (Continued...)
Lecture 23 - Electrical Property of Nanomaterials
Lecture 24 - Magnetic Properties of Nanomaterials - I
Lecture 25 - Magnetic Properties of Nanomaterials - II
Lecture 26 - Optical Properties of Nanomaterials - I
Lecture 27 - Optical Properties of Nanomaterials - II
Lecture 28 - Special Cases: Carbon-Based Nanomaterials
Lecture 29 - Special Cases: Polymer-Based Nanomaterials

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