

Lecture 1 - Introduction to Nanotechnology

Lecture 2 - Introduction to Nanotechnology (Continued...)

Lecture 3 - Synthetic Methodologies

Lecture 4 - Synthetic Methodologies (Continued...)

Lecture 5 - Synthetic Methodologies (Continued...)

Lecture 6 - Synthetic Methodologies (Continued...)

Lecture 7 - Synthetic Methodologies (Continued...)

Lecture 8 - Synthetic Methodologies (Continued...)

Lecture 9 - Template Methods - I

Lecture 10 - Template Methods - II

Lecture 11 - Spray Pyrolysis

Lecture 12 - V-L-S Method

Lecture 13 - Lithography - I

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Lecture 15 - Fullerenes and Carbon Nanotubes - I

Lecture 16 - Fullerenes and Carbon Nanotubes - II

Lecture 17 - Fullerenes and Carbon Nanotubes - III

Lecture 18 - Metal and Metal Oxide Nanowires - I

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Lecture 20 - Metal and Metal Oxide Nanowires - III

Lecture 21 - Self Assembly of Nanostructures - I

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Lecture 27 - Nanocomposites - I

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[Lecture 37 - Optical Properties - I](#)

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Lecture 1 - Introduction to Nanomaterials

Lecture 2 - Introduction to Nanomaterials

Lecture 3 - Introduction to Nanomaterials

Lecture 4 - Introduction to Nanomaterials

Lecture 5 - Introduction to Nanomaterials

Lecture 6 - Introduction to Nanomaterials

Lecture 7 - Introduction to Nanomaterials

Lecture 8 - Introduction to Nanomaterials

Lecture 9 - Introduction to Nanomaterials

Lecture 10 - Introduction to Nanomaterials

Lecture 11 - Surface Effects and Physical properties of nanomaterials

Lecture 12 - Surface Effects and Physical properties of nanomaterials

Lecture 13 - Surface Effects and Physical properties of nanomaterials

Lecture 14 - Surface Effects and Physical properties of nanomaterials

Lecture 15 - Surface Effects and Physical properties of nanomaterials

Lecture 16 - Defect Structure & Mechanical Behaviour of Nanomaterials

Lecture 17 - Defect Structure & Mechanical Behaviour of Nanomaterials

Lecture 18 - Defect Structure & Mechanical Behaviour of Nanomaterials

Lecture 19 - Defect Structure & Mechanical Behaviour of Nanomaterials

Lecture 20 - Defect Structure & Mechanical Behaviour of Nanomaterials

Lecture 21 - Electrical, Magnetic and Optical Properties of Nanomaterials

Lecture 22 - Electrical, Magnetic and Optical Properties of Nanomaterials

Lecture 23 - Electrical, Magnetic and Optical Properties of Nanomaterials

Lecture 24 - Electrical, Magnetic and Optical Properties of Nanomaterials

Lecture 25 - Electrical, Magnetic and Optical Properties of Nanomaterials

Lecture 26 - Atomic Bonding

Lecture 27 - Overview of Nano structures and Nano materials

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Lecture 29 - Multi-Scale Hierarchy

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