

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

NPTEL Video Course - Mechanical Engineering - NOC:Smart Materials and Intelligent System Design

Subject Co-ordinator - Prof. Bisakh Bhattacharya

Co-ordinating Institute - IIT - Kanpur

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

- Lecture 1 - Introduction to Smart Materials
- Lecture 2 - Piezoelectric Material
- Lecture 3 - Magnetostrictive Material
- Lecture 4 - Active Smart Polymer
- Lecture 5 - Shape Memory Alloys
- Lecture 6 - Introduction to composites
- Lecture 7 - Classification of Composites
- Lecture 8 - Micromechanics and Macromechanics of Composites
- Lecture 9 - Classical Laminated Plate Theory
- Lecture 10 - ABD Matrices
- Lecture 11 - Modelling of piezoelectric material 1
- Lecture 12 - Modelling of piezoelectric material 2
- Lecture 13 - Modelling of Magnetostrictive material
- Lecture 14 - Modelling of Shape memory Alloys
- Lecture 15 - Smart Actuators
- Lecture 16 - Smart Materials based MEMS
- Lecture 17 - Smart MEMS Applications
- Lecture 18 - Energy Harvesting
- Lecture 19 - Concept of Self Healing

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