

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

NPTEL Video Course - Civil Engineering - NOC:Characterization of Construction Materials

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Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Characterization of Construction Materials

Lecture 2 - Characterization of Construction Materials

Lecture 3 - Structure of Construction Materials

Lecture 4 - Structure of Construction Materials

Lecture 5 - Structure of Construction Materials

Lecture 6 - Structure of Construction Materials

Lecture 7 - Calorimetry

Lecture 8 - Calorimetry

Lecture 9 - Calorimetry

Lecture 10 - Calorimetry

Lecture 11 - Calorimetry

Lecture 12 - X Ray diffraction

Lecture 13 - X Ray diffraction

Lecture 14 - X Ray diffraction

Lecture 15 - X Ray diffraction

Lecture 16 - X Ray diffraction

Lecture 17 - X Ray diffraction

Lecture 18 - X Ray diffraction

Lecture 19 - X Ray Diffraction

Lecture 20 - X Ray Diffraction

Lecture 21 - X Ray Diffraction

Lecture 22 - X Ray Diffraction

Lecture 23 - Thermal Analysis - Part 1

Lecture 24 - Thermal Analysis - Part 2

Lecture 25 - Application of thermal analysis to study construction materials - Part 1

Lecture 26 - Application of thermal analysis to study construction materials - Part 2

Lecture 27 - Surface Area Measurement

Lecture 28 - Surface Area Measurement

Lecture 29 - Surface Area Measurement

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

- Lecture 30 - Surface Area Measurement
- Lecture 31 - Surface Area Measurement
- Lecture 32 - Optical and Scanning Microscopy- Introduction and specimen preparation - Part 1
- Lecture 33 - Optical and Scanning Microscopy- Introduction and specimen preparation - Part 2
- Lecture 34 - Optical and Scanning Microscopy- Features and functions - Part 1
- Lecture 35 - Optical and Scanning Microscopy- Features and functions - Part 2
- Lecture 36 - Types of optical microscopy - Part 1
- Lecture 37 - Types of optical microscopy - Part 2
- Lecture 38 - Scanning electron microscope Part 1- Parts and Functioning - Part 1
- Lecture 39 - Scanning electron microscope Part 1- Parts and Functioning - Part 2
- Lecture 40 - Scanning electron microscope Part 2- Working Principles - Part 1
- Lecture 41 - Scanning electron microscope Part 2- Working Principles - Part 2
- Lecture 42 - Scanning electron microscope Part 3 - Analysis of cementitious systems 1 - Part 1
- Lecture 43 - Scanning electron microscope Part 3 - Analysis of cementitious systems 1 - Part 2
- Lecture 44 - Scanning electron microscope Part 4 - Analysis of cementitious system 2 - Part 1
- Lecture 45 - Scanning electron microscope Part 4 - Analysis of cementitious system 2 - Part 2
- Lecture 46 - Application of characterization techniques to assess composite binder with limestone-calcined cl
- Lecture 47 - Application of characterization techniques to assess composite binder with limestone-calcined cl
- Lecture 48 - Image analysis - Introduction and image mapping - Part 1
- Lecture 49 - Image analysis - Introduction and image mapping - Part 2
- Lecture 50 - Image analysis - Basic operations - Part 1
- Lecture 51 - Image analysis - Basic operations - Part 2
- Lecture 52 - Spectroscopy Techniques - Part 1 AAS, AES - Part 1
- Lecture 53 - Spectroscopy Techniques - Part 1 AAS, AES - Part 2
- Lecture 54 - Spectroscopy Techniques - Part 2 UV and IR spectroscopy - Part 1
- Lecture 55 - Spectroscopy Techniques - Part 2 UV and IR spectroscopy - Part 2
- Lecture 56 - Spectroscopy Techniques - Part 3 FTIR and NMR spectroscopy - Part 1
- Lecture 57 - Spectroscopy Techniques - Part 3 FTIR and NMR spectroscopy - Part 2
- Lecture 58 - Spectroscopy techniques - Part 4 Principle of NMR spectroscopy
- Lecture 59 - Porosity and pore structure - Introduction, significance of pore distribution
- Lecture 60 - Porosity and pore structure - Working of mercury intrusion porosimeter - Part 1
- Lecture 61 - Porosity and pore structure - Working of mercury intrusion porosimeter - Part 2
- Lecture 62 - Electrical Impedance analysis - Principle and different methods - Part 1
- Lecture 63 - Electrical Impedance analysis - Principle and different methods - Part 2
- Lecture 64 - Electrical Impedance analysis - Deliverables and Interpretation - Part 1
- Lecture 65 - Electrical Impedance analysis - Deliverables and Interpretation - Part 2
- Lecture 66 - Electrochemical testing (Corrosion) using Electrochemical Impedance Spectroscopy (EIS) - Part 1
- Lecture 67 - Electrochemical testing (Corrosion) using Electrochemical Impedance Spectroscopy (EIS) - Part 2