

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

NPTEL Video Course - Civil Engineering - NOC:Mechanical Characterization of Bituminous Materials

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Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Mechanical Characterization of Bituminous Materials-Introduction - Part 1
Lecture 2 - Mechanical Characterization of Bituminous Materials-Introduction - Part 2
Lecture 3 - Linear Viscoelastic Response - Part 1
Lecture 4 - Linear Viscoelastic Response - Part 2
Lecture 5 - Linear Viscoelastic Response - Part 3
Lecture 6 - Linear Viscoelastic Response - Part 4
Lecture 7 - Linear Viscoelastic Response - Part 5
Lecture 8 - Small Amplitude Oscillatory Shear - Part 1
Lecture 9 - Small Amplitude Oscillatory Shear - Part 2
Lecture 10 - Small Amplitude Oscillatory Shear - Part 3
Lecture 11 - Small Amplitude Oscillatory Shear - Part 4
Lecture 12 - Time temperature superposition principle - Part 1
Lecture 13 - Time temperature superposition principle - Part 2
Lecture 14 - Master curve models
Lecture 15 - Asphalt Usage and Processing - Part 1
Lecture 16 - Asphalt Usage and Processing - Part 2
Lecture 17 - Chemical composition of bitumen - Part 1
Lecture 18 - Chemical composition of bitumen - Part 2
Lecture 19 - Chemical composition of bitumen - Part 3
Lecture 20 - Chemical composition of bitumen - Part 4
Lecture 21 - Chemical composition of bitumen - Part 5
Lecture 22 - Aging of Bituminous Binders and Mixtures - Part I
Lecture 23 - Aging of Bituminous Binders and Mixtures - Part II
Lecture 24 - Aging of Bituminous Binders and Mixtures - Part III
Lecture 25 - Dynamic Shear Rheometer - Part I
Lecture 26 - Dynamic Shear Rheometer - Part II
Lecture 27 - Viscosity Grading - Part 1
Lecture 28 - Viscosity Grading - Part 2
Lecture 29 - Performance Grading - Part 1

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- Lecture 30 - Performance Grading - Part 2
- Lecture 31 - PG-Theoretical Basis
- Lecture 32 - Low-temperature PG
- Lecture 33 - Modifiers for Bitumen - Part 1
- Lecture 34 - Modifiers for Bitumen - Part 2
- Lecture 35 - Modifiers for Bitumen - Part 3
- Lecture 36 - Modifiers for Bitumen - Part 4
- Lecture 37 - Mixing and Compaction Temperature - Part 1
- Lecture 38 - Mixing and Compaction Temperature - Part 2
- Lecture 39 - Mixing and Compaction Temperature - Part 3
- Lecture 40 - Dynamic Modulus of Bituminous Mixtures - Part 1
- Lecture 41 - Dynamic Modulus of Bituminous Mixtures - Part 2
- Lecture 42 - Resilient Modulus of Bituminous Mixtures - Part 1
- Lecture 43 - Resilient Modulus of Bituminous Mixtures - Part 2
- Lecture 44 - Rutting Characterisation - Different approaches
- Lecture 45 - Dry Rut Wheel Testing of Bituminous Mixtures
- Lecture 46 - Laboratory investigation for rutting of bituminous mixtures - Part 1
- Lecture 47 - Laboratory investigation for rutting of bituminous mixtures - Part 2
- Lecture 48 - Fatigue of Bituminous mixtures - Part 1
- Lecture 49 - Fatigue of Bituminous mixtures - Part 2
- Lecture 50 - Fatigue of Bituminous mixtures - Part 3
- Lecture 51 - Fatigue of Bituminous mixtures - Part 4
- Lecture 52 - Fatigue of Bituminous mixtures - Part 5
- Lecture 53 - Introduction to curve fitting using Matlab - Part 1
- Lecture 54 - Introduction to curve fitting using Matlab - Part 2
- Lecture 55 - MSCR Analysis using Matlab
- Lecture 56 - Summary