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

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NPTEL Video Course - Civil Engineering - NOC: Hydration, Porosity and Strength of Cementitious Materials
Subject Co-ordinator - Dr. Satyaki Roy, Dr. Sudhir Misra
Co-ordinating Institute - IIT - Kanpur
                                        MP3 Audio Lectures - Available / Unavailable
Sub-Titles - Available / Unavailable
Lecture 1 - Lecture 1 - Introduction to the course
Lecture 2 - Lecture 2 - Concrete - A Three Phase System
Lecture 3 - Lecture 3 - Basic Properties of Concrete
Lecture 4 - Lecture 4 - Portland Cement
Lecture 5 - Lecture 5 - Portland Cement (Continued...)
Lecture 6 - Lecture 6 - Introduction (Aggregates) - 1
Lecture 7 - Lecture 7 - Introduction (Aggregates) - 2
Lecture 8 - Lecture 8 - Introduction (Aggregates) - 3
Lecture 9 - Lecture 9 - Introduction (Concrete Mixture Proportioning Strategies)
Lecture 10 - Lecture 10 - Introduction (Chemical Admixtures)
Lecture 11 - Lecture-11 - Portland Cement Based Paste Systems - I
Lecture 12 - Lecture 12 - Portland Cement Based Paste Systems - II
Lecture 13 - Lecture 13 - Portland Cement Based Paste Systems - III
Lecture 14 - Lecture 14 - Portland Cement Paste Based Systems - IV
Lecture 15 - Lecture 15 - Portland Cement Based Paste Systems - V
Lecture 16 - Lecture 16 - 18 Part 1 - Portland Cement Based Paste Systems - VI
Lecture 17 - Lecture 16 - 18 Part 2 - Portland Cement Based Paste Systems - VII
Lecture 18 - Lecture 19 - Heat of hydration of Portland Cement
Lecture 19 - Lecture 20 - Mass Concrete
Lecture 20 - Lecture 21-22 - Mineral Admixtures - 1
Lecture 21 - Lecture 23-24 - Mineral Admixtures - 2
Lecture 22 - Lecture 25-27 - Mineral Admixtures - 3
Lecture 23 - Lecture 28-30 - Mineral Admixtures - 4
Lecture 24 - Lecture 31 - From paste to concrete
Lecture 25 - Lecture 32 - Demonstration
Lecture 26 - Lecture 33 - Pores and porosity - A revisit
Lecture 27 - Lecture 34 - Measuring permeability of concrete
Lecture 28 - Lecture 35 - Behavior under load
Lecture 29 - Lecture 36 - Curing of concrete
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Lecture 30 - Lecture 37 - Stress strain behaviour

Lecture 31 - Lecture 38 - Durability of concrete - I

Lecture 32 - Lecture 39 - Durability of concrete - II - Specifications
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