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

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NPTEL Video Course - Architecture - NOC:Structural System in Architecture
Subject Co-ordinator - Prof. Sankha Pratim Bhattacharya
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to Structural System
Lecture 2 - Force System
Lecture 3 - Moment, Couple and Static Equilibrium
Lecture 4 - Supports and Reactions
Lecture 5 - Structural Loading and Support Reactions
Lecture 6 - Theory of Elasticity - 1
Lecture 7 - Theory of Elasticity - 2
Lecture 8 - Shear Force Diagram
Lecture 9 - Bending Moment Diagram
Lecture 10 - SFD and BMD
Lecture 11 - Bending Stress in Beam - I
Lecture 12 - Bending Stress in Beam - II
Lecture 13 - Bending Stress in Beam - III
Lecture 14 - Shear Stress in Beam
Lecture 15 - Theory of Column
Lecture 16 - Deflection of Beams
Lecture 17 - Indeterminate Beams
Lecture 18 - Analysis of Fixed Beam, BMD and Deflected Shape, Portal Frame
Lecture 19 - Structural Grid and Framing
Lecture 20 - Structural Design
Lecture 21 - Introduction to Truss
Lecture 22 - Analysis of Truss - 1
Lecture 23 - Analysis of Truss - 2
Lecture 24 - Application of Truss in Architecture
Lecture 25 - Space Frame Structures
Lecture 26 - Introduction to Arch
Lecture 27 - Structural Principle and Application of Arch
Lecture 28 - Shell Structures
Lecture 29 - Application of Arch and Shell in Architecture
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Lecture 30 - Structural Concept and Application of Dome in Architecture
Lecture 31 - Cable Supported Structures
Lecture 32 - Membrane Structures
Lecture 33 - Application of Tensile Structures in Architecture
Lecture 34 - Flat Plate and Flate Slab Structures
Lecture 35 - Waffle Slab and Folded Plate Structures
Lecture 36 - Temporary Structures
Lecture 37 - Building Foundation
Lecture 38 - Structural System for High-rise Buildings - I
Lecture 39 - Structural System for High-rise Buildings - II
Lecture 40 - Structural Detailing
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