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

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NPTEL Video Course - Civil Engineering - NOC: Bridge Engineering
Subject Co-ordinator - Prof. Piyali Sengupta
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Components, Materials, Forms, Evolutions and Classifications of Bridges
Lecture 2 - Site Selection, Subsoil Exploration and Traffic Projections for Bridges
Lecture 3 - Hydraulic Characteristics, Economical Span and Choice of Bridge Type
Lecture 4 - Standard Specifications for Road Bridges
Lecture 5 - Standard Specifications for Rail Bridges
Lecture 6 - Design of Slab Culverts
Lecture 7 - Design of T-Beam and Slab Bridge
Lecture 8 - Voided Slab Bridges, Skew Slab Culverts and Curved Bridge Decks
Lecture 9 - Design of Box Culverts
Lecture 10 - Design of Pipe Culverts
Lecture 11 - Design of Steel Truss Bridges
Lecture 12 - Design Example of Steel Truss Bridges
Lecture 13 - Design of Plate Girder Bridges
Lecture 14 - Design Example of Plate Girder Bridges
Lecture 15 - Masonry Arch Bridges
Lecture 16 - Concrete Arch Bridges
Lecture 17 - Suspension Bridges
Lecture 18 - Cable-Stayed Bridges
Lecture 19 - Balanced Cantilever Bridges
Lecture 20 - Prestressed Concrete Bridges
Lecture 21 - Composite Bridges
Lecture 22 - Rigid Frame Bridges
Lecture 23 - Continuous Girder Bridges
Lecture 24 - Design Example of Continuous Girder Bridges
Lecture 25 - Bridge Piers
Lecture 26 - Bridge Abutments
Lecture 27 - Pile Foundations for Bridges
Lecture 28 - Well and Pneumatic Caisson Foundations for Bridges
Lecture 29 - Bridge Bearings
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NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

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Lecture 30 - Bridge Joints

Lecture 31 - Bridge Appurtenances

Lecture 32 - Bridge Construction

Lecture 33 - Maintenance and Rehabilitation of Bridges

Lecture 34 - Rebuilding of Bridges

Lecture 35 - Dynamic Response of Bridge Decks

Lecture 36 - Seismic Design of Highway Bridges

Lecture 37 - Seismic Design of Railway Bridges

Lecture 38 - Lessons from Bridge Failures

Lecture 39 - Fatigue and Fracture of Bridges

Lecture 40 - Use of Shape memory Alloys in Bridges

Lecture 41 - Use of Engineered Cementitious Composite (ECC) in Bridges

Lecture 42 - 3D Printing of Bridges

Lecture 43 - High Speed Railway Bridges
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