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

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NPTEL Video Course - Civil Engineering - NOC: Design of Connections in Steel Structures
Subject Co-ordinator - Prof. Anil Agarwal
Co-ordinating Institute - IIT - Madras
                                        MP3 Audio Lectures - Available / Unavailable
Sub-Titles - Available / Unavailable
Lecture 1 - Bolts: dimensions and material
Lecture 2 - Bolts: installation techniques and clearances
Lecture 3 - Design of Bearing type bolts in shear: Basic design principle
Lecture 4 - Correction factors for bolts for long joints, long grip lengths, and thick packing plate
Lecture 5 - Design of friction grip bolts in shear and design of bolts in tension
Lecture 6 - Structural Welding Process
Lecture 7 - Groove/Butt Welds
Lecture 8 - Fillet Welds - 1
Lecture 9 - Fillet Welds - 2
Lecture 10 - Weld symbols, defects, and filler material
Lecture 11 - Design of groove welds
Lecture 12 - Design of fillet welds - 1
Lecture 13 - Design of fillet welds - 2
Lecture 14 - Design example of a bolt group
Lecture 15 - Design example of a weld group
Lecture 16 - Simple and rigid frame connections
Lecture 17 - Design of double angle connections
Lecture 18 - Design of seated angle connections
Lecture 19 - End-plate rigid connection: Introduction
Lecture 20 - End-plate connection: Design example
Lecture 21 - Welded-flange rigid connection
Lecture 22 - Ductile detailed beam-column connections - 1
Lecture 23 - Ductile detailed beam-column connections - 2
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