

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

NPTEL Video Course - Civil Engineering - NOC:Free Surface Flows

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Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction  
Lecture 2 - Introduction (Continued...)  
Lecture 3 - Introduction (Continued...)  
Lecture 4 - Introduction (Continued...)  
Lecture 5 - Problems  
Lecture 6 - Problems (Continued...)  
Lecture 7 - Specific Energy  
Lecture 8 - Specific Force  
Lecture 9 - Computation of critical depth and Channel transitions  
Lecture 10 - Channel Transitions (Continued...)  
Lecture 11 - Problems  
Lecture 12 - Problems (Continued...)  
Lecture 13 - Problems (Continued...)  
Lecture 14 - Problems (Continued...)  
Lecture 15 - Problems (Continued...)  
Lecture 16 - Introduction  
Lecture 17 - Friction Factor  
Lecture 18 - Manning's Roughness  
Lecture 19 - Most Efficient Cross Section  
Lecture 20 - Most Efficient Cross Section (Continued...)  
Lecture 21 - Problems  
Lecture 22 - Problems (Continued...)  
Lecture 23 - Problems (Continued...)  
Lecture 24 - Problems (Continued...)  
Lecture 25 - Problems (Continued...)  
Lecture 26 - Introduction  
Lecture 27 - Differential Equation of GVF  
Lecture 28 - Flow Profiles  
Lecture 29 - Flow Profiles (Continued...)

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- Lecture 30 - GVF Profiles
- Lecture 31 - Problems
- Lecture 32 - Problems (Continued...)
- Lecture 33 - Problems (Continued...)
- Lecture 34 - Problems (Continued...)
- Lecture 35 - Problems (Continued...)
- Lecture 36 - Introduction
- Lecture 37 - SVF with increasing discharge and Control Points
- Lecture 38 - SVF with decreasing discharge
- Lecture 39 - De Marchi Equation and problems
- Lecture 40 - Problems
- Lecture 41 - Introduction
- Lecture 42 - Hydraulic Jump
- Lecture 43 - Efficiency and Classification of hydraulic jump
- Lecture 44 - Sharp Crested Weir
- Lecture 45 - Problems on Rapidly Varied Flow
- Lecture 46 - Introduction
- Lecture 47 - Equation of Motion of GVUF
- Lecture 48 - GVUF equation in terms of discharge
- Lecture 49 - Uniformly Progressive Wave
- Lecture 50 - Preissmann Scheme
- Lecture 51 - Introduction
- Lecture 52 - Surges (Continued...)
- Lecture 53 - Dam Break Problem
- Lecture 54 - Problems on RVUF
- Lecture 55 - Problems on RVUF (Continued...)
- Lecture 56 - Introduction
- Lecture 57 - Shields Curve Continued
- Lecture 58 - Bed Forms and Resistance
- Lecture 59 - Bed Load and Suspended Load Transport
- Lecture 60 - Problems
- Lecture 61 - Problems (Continued...)