

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

NPTEL Video Course - Civil Engineering - NOC:Computational Hydraulics

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Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to Computational Hydraulics
- Lecture 2 - Problem Definition and Governing Equations (GE)
- Lecture 3 - Classification of Problems based on Initial Condition (IC) and/or Boundary Conditions (BC)
- Lecture 4 - Classification of Differential Equations
- Lecture 5 - Numerical Methods
- Lecture 6 - Finite Difference Approximation
- Lecture 7 - Ordinary Differential Equation
- Lecture 8 - Ordinary Differential Equation
- Lecture 9 - Partial Differential Equation
- Lecture 10 - Partial Differential Equation
- Lecture 11 - Partial Differential Equation
- Lecture 12 - Partial Differential Equation
- Lecture 13 - Finite Volume Method - Overview
- Lecture 14 - Finite Volume Method - BVP
- Lecture 15 - Finite Volume Method - IBVP
- Lecture 16 - Finite Volume Method - Conservation Law
- Lecture 17 - Upwind Approach
- Lecture 18 - Godunov Approach
- Lecture 19
- Lecture 20
- Lecture 21 - Mesh-Tree Method
- Lecture 22 - Mesh-Free Method
- Lecture 23 - Mesh-Free Method
- Lecture 24 - Numerical Method
- Lecture 25 - Algebraic Equation
- Lecture 26 - Algebraic Equation
- Lecture 27 - Algebraic Equation
- Lecture 28 - Algebraic Equation
- Lecture 29 - Algebraic Equation

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- Lecture 30 - Algebraic Equation
- Lecture 31 - One-Dimensional Flow
- Lecture 32 - Steady Two-Dimensional Flow
- Lecture 33 - Unsteady Two-Dimensional Flow using Finite Difference Method
- Lecture 34
- Lecture 35
- Lecture 36
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- Lecture 38
- Lecture 39
- Lecture 40 - Steady Channel Flow
- Lecture 41 - Steady Channel Flow
- Lecture 42 - Steady Channel Flow
- Lecture 43 - Steady Channel Flow
- Lecture 44
- Lecture 45
- Lecture 46
- Lecture 47
- Lecture 48
- Lecture 49 - Unsteady Flow in Pipes
- Lecture 50 - Surface Water and Ground Water Interaction
- Lecture 51 - Course Summary