

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

NPTEL Video Course - Chemical Engineering - NOC:Fluid Flow Operations

Subject Co-ordinator - Dr. S.K. Majumder

Co-ordinating Institute - IIT - Guwahati

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

Lecture 1 - Introduction  
Lecture 2 - Characteristics of fluid (Continued...)  
Lecture 3 - Fluid Statics  
Lecture 4 - Fluid Statics (Continued...)  
Lecture 5 - Fundamentals of flow - Part 1  
Lecture 6 - Fundamentals of flow - Part 2  
Lecture 7 - One dimensional flow - Part 1  
Lecture 8 - One dimensional flow - Part 2  
Lecture 9 - One dimensional flow - Part 3  
Lecture 10 - Flow of Viscous fluid - Introduction  
Lecture 11 - Velocity distribution in laminar flow  
Lecture 12 - Velocity distribution in turbulent flow  
Lecture 13 - Boundary layer theory  
Lecture 14 - Theory of lubrication  
Lecture 15 - Frictional resistance  
Lecture 16 - Losses in gematric change  
Lecture 17 - Losses in geometric change (Continued...)  
Lecture 18 - Flow Velocity and Optimum Shape  
Lecture 19 - Equation of Energy and Discharge of Water Channel  
Lecture 20 - Drag  
Lecture 21 - Lift and Cavitation  
Lecture 22 - Dimensional Analysis  
Lecture 23 - Dimensional Analysis  
Lecture 24 - Law of Similarity and Significant Dimensionless Number  
Lecture 25 - Compressible Flow - Part 1  
Lecture 26 - Compressible Flow - Part 2  
Lecture 27 - Measurement of Flow - Part 1  
Lecture 28 - Measurement of Flow - Part 2  
Lecture 29 - Measurement of Flow - Part 3

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

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- Lecture 30 - Introduction to multiphase flow
- Lecture 31 - Hydrodynamics in multiphase flow
- Lecture 32 - Hydrodynamics in multiphase flow (Continued...)
- Lecture 33 - Applications of multiphase flow