Mindluster Platform

About the course Viscous Fluid Flow Topics

Viscous Fluid Flow course in hindi, in this course Explore the behavior, analysis, and practical applications of viscous fluids in engineering and fluid dynamics.

Engineering Category's Courses

Course Lesson(45)

Lesson 1 : **Viscous Fluid Flow Intro Video**

Lesson 2 : **Lec 1 Preliminary concepts**

Lesson 3 : **Lec 2 Fluid Kinematics**

Lesson 4 : **Lec 3 Derivation of incompressible Navier Stokes equations**

Lesson 5 : **Lec 4 Initial and Boundary Conditions**

Lesson 6 : **Lec 5 Plane Couette Flow**

Lesson 7 : **Lec 6 Plane Poiseuille Flow**

Lesson 8 : **Lec 7 Plane Poiseuille Flow with Slip and Thin Film Flow**

Lesson 9 : **Lec 8 Combined Couette â€“ Poiseuille Flow**

Lesson 10 : **Lec 9 Example Problems**

Lesson 11 : **Lec 10 Hagen â€“ Poiseuille Flow**

Lesson 12 : **Lec 11 Thin Film Flow and Annular Flow**

Lesson 13 : **Lec 12 Steady Flow Between Rotating Cylinders**

Lesson 14 : **Lec 13 Flow near a plate suddenly set in motion**

Lesson 15 : **Lec 14 Flow due to an oscillating plate**

Lesson 16 : **Lec 15 Transient Plane Couette Flow**

Lesson 17 : **Lec 16 Transient Axisymmetric Poiseuille Flow**

Lesson 18 : **Lec 17 Flow Through Rectangular Duct**

Lesson 19 : **Lec 18 Flow Through Equilateral Triangular Duct**

Lesson 20 : **Lec 19 Flow Through Elliptical Duct**

Lesson 21 : **Lec 20 Example Problems**

Lesson 22 : **Lec 21 Creeping Flow Around a Sphere**

Lesson 23 : **Lec 22 Reynolds Equation for Lubrication**

Lesson 24 : Lec 23 One dimensional Slider Bearing

Lesson 25 : Lec 24 Journal Bearing and Piston ring Lubrication

Lesson 26 : Lec 25 Derivation of Boundary Layer Equations

Lesson 27 : Lec 26 Blasius Flow Over A Flat Plate Similarity Solution

Lesson 28 : Lec 27 Momentum Integral Equation For Flat Plate Boundary Layer

Lesson 29 : Lec 28 Falkner Skan equation Boundary layer flow over a wedge

Lesson 30 : Lec 29 Karman Pohlhausen Method for Non zero Pressure Gradient Flows

Lesson 31 : Lec 30 The Correlation Method by Thwaites

Lesson 32 : Lec 31 Separation of Boundary Layer

Lesson 33 : Lec 32 Example Problems

Lesson 34 : Lec 33 Two dimensional Laminar Jet

Lesson 35 : Lec 34 Flow in the Wake of a Flat Plate

Lesson 36 : Lec 35 Free Shear Layer Between Two Different Streams

Lesson 37 : Lec 36 Derivation of Orr Sommerfeld Equation

Lesson 38 : Lec 37 Viscous Stability

Lesson 39 : Lec 38 Inviscid Analysis

Lesson 40 : Lec 39 Introduction to Turbulent Flows

Lesson 41 : Lec 40 Derivation of Reynolds Averaged Navier Stokes Equations

Lesson 42 : Lec 41 External Turbulent Flows

Lesson 43 : Lec 42 Integral Solution for Turbulent Boundary Layer Flow

Lesson 44 : Lec 43 Internal Turbulent Flow

Lesson 45 : Lec 44 Turbulence Modelling

Related courses

Cabinetry Basics

MFT and MFT related accessories

hinges workshops

CNC Computer numerical control

Jointing Systems

Cabinet tips



for Business Contact
business@mindluster.com