Mindluster Platform

About the course Fluid Flow Analysis

Fluid Flow Analysis course in hindi, in this course we will explore the principles, methods, and applications of analyzing the behavior of fluids in various engineering systems and scenarios.

Engineering Category's Courses

Course Lesson(38)

Lesson 1 : **Fluid Mechanics Introduction Video**

Lesson 2 : **Lec 1 Basic Concepts of Fluid**

Lesson 3 : **Lec 2 Properties of Fluid**

Lesson 4 : **Lec 3 Fluid Flow Analysis**

Lesson 5 : **Lec 4 Concepts of Hydrostatic**

Lesson 6 : **Lec 5 Measurement of Pressure and Hydrostatic forces**

Lesson 7 : **Lec 6 Buoyancy Metacentre Stability and Rigid body motion**

Lesson 8 : **Lec 9 Conservation of Momentum**

Lesson 9 : **Lec 8 Conservation of Mass**

Lesson 10 : **Lec 7 Reynolds Transport Theorem**

Lesson 11 : **Lec 10 Conservation of Momentum Applications**

Lesson 12 : **Lec 11 Bernoulli s Equation**

Lesson 13 : **Lec 12 Applications of Bernoulli s Equation**

Lesson 14 : **Lec 13 Fluid Statics Applications Example Problems**

Lesson 15 : **Lec 14 Conservation of Momentum Example problems**

Lesson 16 : **Lec 15 Bernoulli s Equation Problems Solving on Black Board**

Lesson 17 : **Lec 16 Lagrangian and Eulerian Descriptions**

Lesson 18 : **Lec 17 Motion and deformation of fluid elements**

Lesson 19 : **Lec 18 Problems Solving on Black Board**

Lesson 20 : **Lec 19 Dimensional Homogeneity**

Lesson 21 : **Lec 20 Dimensional Analysis and Similarity**

Lesson 22 : **Lec 21 Laminar and Turbulent Flows**

Lesson 23 : **Lec 22 Losses in Pipe Fittings**

Lesson 24 : **Lec 23 Flow in Noncircular Conduits and Multiple Path Pipeflow**

Lesson 25 : **Lec 24 Mass Conservation Equation I**

Lesson 26 : **Lec 25 Mass Conservation Equation II**

Lesson 27 : **Lec 26 Stream Function**

Lesson 28 : **Lec 27 Cauchy s Equation**

Lesson 29 : **Lec 28 The Navier Stokes Equation**

Lesson 30 : **Lec 29 The Navier Stokes Equation part 2**

Lesson 31 : **Lec 30 The Navier Stokes Equation III**

Lesson 32 : **Lec 31 Approximate solutions of Navier Stokes Equation Bounary Layer Approximation**

Lesson 33 : **Lec 32 Boundary Layer Approximation II**

Lesson 34 : **Lec 33 Boundary Layer Approximation III**

Lesson 35 : **Lec 34 Open Channel Flow**

Lesson 36 : **Lec 35 Open Channel Flow II**

Lesson 37 : **Lec 36 Open Channel Flow III**

Lesson 38 : **Lec 37 Drag and Lift**

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