Fluid Mechanics Tutorial No 3 Boundary Layer Theory

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Fluid Mechanics Tutorial No 3

FLUID MECHANICS TUTORIAL No. 3 BOUNDARY LAYER THEORY In order to complete this tutorial you should already have completed tutorial 1 and 2 in this series. This tutorial examines boundary layer theory in some depth. When you have completed this tutorial, you should be able to do the following.

FLUID MECHANICS TUTORIAL No. 3 BOUNDARY LAYER THEORY

The density of air may be taken as 1 25 kg m3 and the kinematic viscosity as. 1 5 x 10 5 m2 s 1 8 N, 1 5 APPLICATION TO SPHERES, The relationship between drag and Reynolds number is roughly the same as. 1 FLUID MECHANICS TUTORIAL No 3 BOUNDARY LAYER THEORY In order to complete this tutorial you

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The pump is FLUID MECHANICS TUTORIAL No.8B CENTRIFUGAL PUMPS 1 FLUID MECHANICS TUTORIAL No. 3 BOUNDARY LAYER THEORY In order to complete this tutorial you should already have completed tutorial 1 and 2 in this series. This tutorial examines boundary layer theory in some depth.

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Fluid mechanics Chapter 3 Pressure and fluid statics - Part 2

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Engineering Fluid Mechanics 5 Contents 2.4 Flow Measurement 59 2.5 Flow Regimes 63 2.6 Darcy Formula 64 2.7 The Friction factor and Moody diagram 65 2.8 Flow Obstruction Losses 69 2.9 Fluid Power 70 2.10 Fluid Momentum 73 2.11 Tutorial Problems 80 3 External Fluid Flow 82 3.1 Regimes of External Flow 82 3.2 Drag Coefficient 83

Engineering Fluid Mechanics - ČZU

fraction is 0.3. The dynamic viscosity is 0.06 N s/m2. SOLUTION The flow is radial so -dp/dx = dp/dr since radius increases in the opposite sense to x in the derivation. The equation may be written as : ( ) 2 3 180 1 2 ε μ ε ds u dx dp − =− r is the radius. Putting in values: ( ) x u x x u dr dp 9 2 3 2 122.5 10 0.00004 0.3 180 0.06 1 0.3 = − =

FLUID MECHANICS TUTORIAL No.4 FLOW THROUGH POROUS PASSAGES

FLUID MECHANICS 203 TUTORIAL No.2 APPLICATIONS OF BERNOULLI On completion of this tutorial you should be able to derive Bernoulli's equation for liquids. find the pressure losses in piped systems due to fluid friction. find the minor frictional losses in piped systems. match pumps of known characteristics to a given system.

FLUID MECHANICS 203 TUTORIAL No.2 APPLICATIONS OF BERNOULLI

WORKED EXAMPLE No.3 A pump draws water from a tank and delivers it to another with the surface 8 m above that of the lower tank. The delivery pipe is 30 m long, 100 bore diameter and has a friction coefficient of 0.003. The pump impeller is 500 mm diameter and revolves at 600 rev/min. The pump is

FLUID MECHANICS TUTORIAL No.8B CENTRIFUGAL PUMPS

TUTORIAL No. 1 FLUID FLOW THEORY In order to complete this tutorial you should already have completed level 1 or have a good basic knowledge of fluid mechanics equivalent to the Engineering Council part 1 examination 103. When you have completed this tutorial, you should be able to do the following. Explain the meaning of viscosity.

TUTORIAL No. 1 FLUID FLOW THEORY

1 FLUID MECHANICS TUTORIAL No. 3 BOUNDARY LAYER THEORY In order to complete this tutorial you should already have completed tutorial 1 and 2 in this series. This tutorial examines boundary layer theory in some depth. When you have completed this tutorial, you should be able to do the following.

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Fluid Mechanics: Fundamental Concepts, Fluid Properties (1 ...

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Fluid Mechanics: Topic 1.2 - Pressure - YouTube

2.016 Hydrodynamics Reading #3 2.016 Hydrodynamics Prof. A.H. Techet Introduction to basic principles of fluid mechanics I. Flow Descriptions 1. Lagrangian (following the particle): In rigid body mechanics the motion of a body is described in terms of the body's position in time.

Introduction to basic principles of fluid mechanics

Whenever a real fluid flow over a solid boundary and because of no-slip condition, the fluid particle will get stick to the boundary. Hence the velocity of a particle will be equal to the velocity of a boundary. If the object is at rest, the fluid particle velocity near the boundary will be zero and it is the Greater distance in a normal direction.

[2020] Basic Fluid Mechanics Questions and Answers [PDF]

Taylor's University Engineering Fluid Mechanics School of Engineering 1 Tutorial 3 – Fluid Statics Part 2 Instructions:-You are strongly recommend to attempt the tutorial questions before you come to the class as the purpose of tutorial sessions is not lecturing but having practice to enhance your critical thinking and thus to have firm understanding and knowledge.

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Fluid Mechanics I - Dr. Biddle's lecture series - YouTube

EG2004 (2013/2014) Fluid Mechanics – Fluid Motion Tutorial

Sheet (3) (Solutions) _____ 07/01/2014 22:00 Page 1 of 9 3-1. Categorise the following flows in terms of the steady-uniform descriptors. a) constant discharge through a long straight pipe with diameter d=constant b) steadily increasing flow through a pipe c) motion of a river around bridge piers d) motion of water around a moving ...

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