

Unit 2 Cive1400 An Introduction To Fluid Mechanics Unit 2

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Unit 2 Cive1400 An Introduction

An Introduction To Fluid Mechanics : CIVE1400 Pressure Measurement By Manometer The relationship between pressure and head is used to measure pressure with a manometer (also know as a liquid gauge).

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View Notes - Lecture Notes 2 from CIVE 1400 at University of Leeds. Unit 2 CIVE1400: An Introduction to Fluid Mechanics Unit 2: Statics Dr P A Sleigh: P.A.Sleigh@leeds.ac.uk Dr CJ Noakes:

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2. Formation of the boundary layer. Above we noted that the boundary layer grows from zero when a fluid starts to flow over a solid surface. As it passes over a greater length more fluid is slowed by friction between the fluid layers close to the boundary. Hence the thickness of the slower layer increases.

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(dynamic) viscosity, $\mu = 0.55 \times 10^{-3} \text{ N s/m}^2$ We want to know the maximum velocity when the Re is 2000. If this were a pipe in a house central heating system, where the pipe diameter is typically 0.015m, the limiting velocity for laminar flow would be, 0.0733 m/s.

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At the surface velocity is negligible ($u_1 = 0$) and the pressure atmospheric ($p_1 = 0$). At the orifice the jet is open to the air so again the pressure is atmospheric ($p_2 = 0$). If we take the datum line through the orifice then $z_1 = h$ and $z_2 = 0$, leaving This is the theoretical value of velocity.

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CIVE 1400: Fluid Mechanics Fluid Mechanics and Properties of Fluids 18 1.4.2.2 Kinematic Viscosity Kinematic Viscosity, ν , is defined as the ratio of dynamic viscosity to mass density. $\nu = \mu / \rho = \text{Units: square metres per second, m}^2\text{s}^{-1}$. (Although note that ν is often expressed in Stokes, St, where $104 \text{ St} = 1 \text{ m}^2\text{s}^{-1}$.)

An Introduction to Fluid Mechanics

Lecture Month Date Week Day Time Unit 1 January 15 0 Tue s 3.00 pm Unit 1: Fluid Mechanic Basics Pressure, density 2 16 0 Wed 9.00 am Viscosity, Flow Extra 22 1 Tue s 3.00 pm Presentation of Case Studies double lecture 3 23 1 Wed 9.00 am Flow calculations 4 29 2 Tue s 3.00 pm Unit 2: Fluid Statics Pressure

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2 21 0 Wed 9.00 am Viscosity, Flow Extra 27 1 Tues 3.00 pm Presentation of Case Studies double lecture 3 28 1 Wed 9.00 am Flow calculations 4 3 2 Tues 3.00 pm Unit 2: Fluid Statics Pressure 5 4 2 Wed 9.00 am Plane surfaces 6 February 10 3 Tues 3.00 pm Curved surfaces

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Unit 1 CIVE 1400: Fluid Mechanics. Lecture 1 1 CIVE1400: An Introduction to Fluid Mechanics Dr P A Sleigh Dr CJ Noakes January 2009 Module Material on the Web: Use the VLE Also: Unit 1: Fluid Mechanics Basics 3 lectures Flow Pressure Properties of Fluids Fluids vs. Solids Viscosity Unit 2: Statics 3 lectures Hydrostatic pressure Manometry/Pressure ...

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Unit 2 - Introduction

Unit 3: Fluid Dynamics CIVE1400: Fluid Mechanics Lecture 8 99 Fluid Dynamics Objectives 1. Identify differences between: 2. Demonstrate streamlines and stream tubes 3. Introduce the Continuity principle 4. Derive the Bernoulli (energy) equation 5. Use the continuity equations to predict pressure and velocity in flowing fluids 6. Introduce the momentum equation for a fluid 7. Demonstrate use of the ...

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