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## Fluid Mechanics Worked Examples For Engineers

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In the text, worked examples enable the reader to become familiar with, and to grasp firmly, important concepts and principles in fluid mechanics such as mass, energy and momentum. The mathematical approach is simple for anyone with prior knowledge of basic engineering concepts.

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WORKED EXAMPLE No. 1 Write down the basic dimensions of pressure  $p$ .

SOLUTION Pressure is defined as  $p = \text{Force}/\text{Area}$  The S.I. unit of pressure is the Pascal which is the name for  $1\text{N}/\text{m}^2$ . Since force is  $\text{MLT}^{-2}$  and area is  $\text{L}^2$  then the basic dimensions of pressure are  $\text{ML}^{-1}\text{T}^{-2}$  When solving problems it is useful to use a notation to indicate the MLT dimensions

~~APPLIED FLUID MECHANICS TUTORIAL No.6 DIMENSIONAL ANALYSIS~~

Engineering Fluid Mechanics 9 Notation Work Energy, and Heat: The joule is the work done by a force of one Newton when its point of application is moved through a distance of one metre in the direction of the force. The same unit is used for the measurement of every kind of energy including quantity of heat.

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$s. = 2.06 \times 10^9 (\text{N}/\text{m}^2)$  and  $\rho = 1000 (\text{kg}/\text{m}^3)$  The difference is  $= 0.5\%$  It can be noted that the speed of sound in gases changes more than in liquids with changes in temperature. Worked Example 4.2 An aircraft flies at an altitude of 10,000 m where the pressure and density are 0.265 bar and  $0.41 \text{ kg}/\text{m}^3$ . respectively.

~~Engineering Fluid Mechanics~~

Most dramatic examples of fluid mechanics in action are hydroelectric dams. They

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are huge in size and equally impressive in power they can generate using completely renewable resource; water. The steel and concrete structure of hydroelectric dam holds back millions of tons of water from the river or other body.

~~Applications of Fluid Mechanics in Practical Life ...~~

WORKED EXAMPLE No. 1 The diagram shows a pump delivering water through a pipe 30 mm bore to a tank. Find the pressure at point (1) when the flow rate is 1.4 dm<sup>3</sup>/s. The density of water is 1000 kg/m<sup>3</sup>. The loss of pressure due to friction is 50 kPa. Fig.1.2 SOLUTION Area of bore  $A = \pi \times 0.03^2/4 = 706.8 \times 10^{-6} \text{ m}^2$ .

~~FLUID MECHANICS 203 TUTORIAL No.2 APPLICATIONS OF BERNOULLI~~

Worked Example 1: Natural Flow; Worked Example 2: Natural Flow With Pipes of Different Diameters and Lengths; Worked Example 3: Simple Tap System (Tap Open) Worked Example 4: Simple Tap System (Tap Closed) Worked Example 5: Pump Requirement; Worked Example 6: Distribution System – The General Equation; Worked Example 7: Parallel Pipes

~~Worked Example 1: Natural Flow | ITACA~~

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Fluid Mechanics: Worked Examples for Engineers. Carl Schaschke. IChemE, 2005 - Engineering mathematics - 300 pages. 3 Reviews. This is a collection of problems and solutions in fluid mechanics for students of all engineering disciplines. The text is intended to support undergraduate courses and be useful to academic tutors in supervising design ...

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~~Worked Example 5: Pump Requirement | ITACA~~

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