Fluid Dynamics Problems And Solutions

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Fluid dynamics – problems and solutions. Torricelli's theorem. 1. A container filled with water and there is a hole, as shown in the figure below. If acceleration due to gravity is 10 ms-2, what is the speed of water through that hole? Known : Height (h) = 85 cm – 40 cm = 45 cm = 0.45 meters. Acceleration due to gravity (g) = 10 m/s 2

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The solution p u y C does not satisfy the equation and is already included in the homogeneous solution. The second simplest solution is p u y Qy . (1.15) The constant term does not need to be included. Inserting Eq. (1.15) into the governing equation gives w w yy p y p :0 /u y V u y B VQ B Q B V. (1.16) Hence the solution has the form

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c. Flat plate solution d. Lift and drag over bodies and use of lift and drag coefficients 11. Basic 1-D compressible fluid flow a. Speed of sound b. Isentropic flow in duct of variable area c. Normal shock waves d. Use of tables to solve problems in above areas 12. Non-dimensional numbers, their meaning and use a. Reynolds number b. Mach number

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SOLUTION First determine the head flow characteristic for the system. ΔH = developed head of the pump = 8 + 4fLu2/2gd + minor losses No details are provided about minor losses so only the loss at exit may be found. hL = 4fLu2/2gd + u2/2g ΔH = = 8 + 4fLu2/2gd + u2/2g u = 4Q/πd2 = 127.3 Q

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There are five relationships that are most useful in fluid mechanics problems: kinematic, stress, conservation, regulating, and constitutive. The analysis of fluid mechanics problems can be altered depending on the choice of the system of interest and the volume of interest, which govern the simplification of vector quantities.

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FLUID DYNAMICS: Physics, Mathematics and Applications J. M. McDonough Departments of Mechanical Engineering and Mathematics University of Kentucky, Lexington, KY 40506-0503 c 1987, 1990, 2002, 2004, 2009