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water through that hole? Known : Height (h) = 85 cm - 40 cm = 45 cm = 0.45 meters. Acceleration due to gravity (g) = 10 m/s²

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pressure of blood between the brain and the soles of the feet of a person whose height 165 cm (suppose the density of blood = $1.0 \times 10^3 \text{ kg/m}^3$, acceleration due to gravity = 10 m/s^2)

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hydraulic lift. In a typical service station 12 atm is applied to the small area with the lifting column 9.0cm in radius. Find the force transferred to the large area and the mass of vehicle that can be lifted. Fig. 16 2 . Solution: The hydraulic fluid is at the same level so $\rho_1 = \rho_2$. or

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Fluids problems and solutions

Specific volume of a fluid is defined as the volume of the fluid occupied by a unit Mass or volume per unit mass of a fluid is called specific volume. Specific volume = Volume / Mass = $m^3 / kg = l/p$.

7. Explain the Specific gravity . Specific gravity is defined as the ratio of weight density of a fluid to the weight density of

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a standard fluid.

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problems in above areas 12. Non-dimensional numbers, their meaning and use a. Reynolds number b. Mach number

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and reverse flows.

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Solving Fluid Dynamics Problems 3.185
November 29, 1999, revised October 31, 2001, November 1, 2002, and November 5, 2003 This outlines the methodology for solving fluid dynamics problems as

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presented in this class, from start to finish. (“W3R” references are to the textbook for this class by Welty, Wicks, Wilson and Rorrer.) 1.

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article will help you to get the probable answers for the questions related to Kinematics of Fluid Flow. Kinematics of fluid flow deals with the motion of fluid particles without considering the agency producing the motion.

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2. Body Immersed in Two Different Fluids: . Fig. 4.9 shows a body of volume V immersed in two different fluids of specific weights w_1 and w_2 respectively.. In this case the upthrust on the body = Weight of the volume V_1 of liquid of specific weight of w_1 + Weight of volume V_2 of the liquid of specific weight w_2 where V_1 and V_2

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are the volumes of the two liquids displaced by the body.

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fluid temperature and slow operation. The ultimate aim of this article is to help you to detect the problems and hydraulic solutions to resolve them. Hydraulic troubleshooting is not an easy task.

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