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Solution: (a) $(2.283E7 \text{ gal/day}) \times (0.0037854 \text{ m}^3/\text{gal}) \div (86,400 \text{ s/day}) = 1.0 \text{ m}^3/\text{s}$ Ans. (a) (b) $1 \text{ furlong} = (\frac{1}{8})\text{mile} = 660 \text{ ft}$. Then $(4.48 \text{ furlongs/min}) \times (660 \text{ ft/furlong}) \times (0.3048 \text{ m/ft}) \div (60 \text{ s/min}) = 15 \text{ m/s}$ Ans. (b) (c) $(72,800 \text{ oz/acre}) \div (16 \text{ oz/lbf}) \times (4.4482 \text{ N/lbf}) \div (4046.9 \text{ acre/m}^2) = 5.0 \text{ N/m}^2 = 5.0 \text{ Pa}$ Ans. (c) _____ f6 Solutions Manual • Fluid Mechanics, Eighth Edition P1.8 Suppose that bending stress σ in a beam ...

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78 Solutions Manual Fluid Mechanics, Fifth Edition Solution: First evaluate air $(\rho_A/RT)g [15 \text{ 144}/(1717 \text{ 528})](32.2) 0.0767 \text{ lbf/ft}^3$. Take water 62.4 lbf/ft^3 . Then apply the hydrostatic formula from point B to point C: $p (1.0 \text{ ft}) (62.4)(2.0 \text{ ft}) p p (1.25)) \text{ psf B oil C B (144}$

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10 Solutions Manual • Fluid Mechanics, Fifth Edition. Solution: List the dimensions: $\{\alpha\} = \{L^2/T\}$, $\{L\} = \{L\}$, $\{\mu\} = \{M/LT\}$, $\{\delta Y\} = \{M/T^2\}$. We divide δY by μ to get rid of mass dimensions, then divide by α to eliminate time: $\{ \frac{\delta Y}{\mu} \} = \{ T^2 \}$, then $\frac{\delta Y}{\mu \alpha} = \{ T^2 \}$. $\frac{\delta Y}{\mu \alpha} = \{ T^2 \}$

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Solution manual for fluid mechanics 8th edition frank white 1. Solution 1.C1 (a) The function $Q = fcn(\Delta t, R, A, \Delta T)$ must have units of Btu. The only combination of units which accomplishes this is: $2 (24)(45)(35)$. (a) $2.5 / \text{lost TA hr F ft ft Q Ans.}$

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Solution: For water, let $\gamma = 0.073 \text{ N/m}$, contact angle $\theta = 0^\circ$, and $\gamma = 9790 \text{ N/m}^3$. The capillary rise in the tube, from Example 1.9 of the text, is Then the rise due to applied pressure is less by that amount: $h_{\text{press}} = 0.25 \text{ m} - 0.03 \text{ m} = 0.22 \text{ m}$. The applied pressure is estimated to be $p = \gamma h_{\text{press}} = (9790 \text{ N/m}^3)(0.22 \text{ m}) \approx 2160 \text{ Pa}$ Ans. θ

Chapter 2 Pressure Distribution in a Fluid

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Frank M White is Professor Emeritus of Mechanical and Ocean Engineering at the University of Rhode Island. He studied at Georgia Tech and M.I.T. In 1966 he helped found, at URI, the first department of ocean engineering in the country. Known primarily as a teacher and writer, he has received eight teaching awards and has written four textbooks on fluid mechanics and heat transfer.

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Fluid Mechanics, 6th Ed. Kundu, Cohen, and Dowling Exercise 1.3. The Maxwell probability distribution, $f(v) = f(v_1, v_2, v_3)$, of molecular velocities in a gas flow at a point in space with average velocity u is given by (1.1). a) Verify that u is the average molecular velocity, and determine the standard deviations (σ_1 ,

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