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$E_1 = (10 \text{ g})(6 \text{ C})(0.465 \text{ cal/g} \cdot \text{C}) + 10\text{g}(79.7 \text{ cal/g})$ $E_1 = \text{energy required to bring the water temperature to. } 95 \text{ C from } 15^\circ \text{ C}$ $E_1 = 825 \text{ cal.}$ This energy is taken from the water. $E_1 = (900 \text{ g})(95 \text{ C} - 15 \text{ C})(1 \text{ cal/g} \cdot \text{C})$ The resulting temperature of the water will decrease to:

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$P = \rho \cdot h = (9.79 \text{ kN/m}^3)(6 \text{ m}) = 58.7 \text{ kN/m}^2$ $F = P \cdot A = (58.7 \text{ kN/m}^2)(36 \text{ m}^2)$ $F = 2,110 \text{ N}$ The force exerted on the sides of the tank may be found in like manner (pressure times the area). However ...

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$M = W \cdot GM \cdot \sin \theta$ $M = [(1.03)(9790 \text{ N/m}^3)(12\text{m})(4.8\text{m})(2\text{m})](0.660\text{m})(\sin 15^\circ)$ $M = 198 \text{ kN} \cdot \text{m}$; The distance G can be moved is block will not be stable. $d = GM(\sin \theta) = (0.66 \text{ m})(\sin 15^\circ) = 0.171 \text{ m}$. 14. 2.8.9 2.8.11 Fundamentals of Hydraulic Engineering Systems 4th Edition Houghtalen SOLUTIONS MANUAL Full download at: <http://testbanklive.com/download/fundamentals-of-hydraulic-engineering-systems-4th-edition-houghtalen-solutions-manual/> Fundamentals of Hydraulic Engineering Systems ...

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