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Assumptions: Fluid is static and incompressible Solution: Apply the hydrostatic relations for pressure, force, and moments, with y measured from the surface of the liquid: $\rho g y = \rho g h = \rho g (h + y) = \rho g h + \rho g y$ For the magnitude of the force we have: $F = \rho g h A$ The pressure is determined at the location of the centroid of the area $h = 1 + 1.5 = 2.5$ $F = \rho g h A = \rho g (2.5) A$...

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A substance in the liquid or gas phase is referred to as a fluid. Distinction between a solid and a fluid is made on the basis of the substance's ability to resist an applied shear (or tangential) stress that tends to change its shape. A solid can resist an applied shear stress by deforming, whereas a fluid deforms continuously under the influence of shear stress, no matter how small. In solids stress is proportional to strain, but in fluids stress is proportional to strain rate. 5

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