

Introduction To Fluid Mechanics Solutions Manual

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Brief Introduction To Fluid Mechanics Solutions Manual---

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:

$\rho g h = \rho g \Delta h = \rho g \Delta z = \rho g \Delta y$
 $\rho g h = \rho g \Delta h = \rho g \Delta z = \rho g \Delta y$
For the magnitude of the force we have:
 $F = \rho g h A = \rho g h \bar{y} A$
The pressure is determined at the location of the centroid of the area
 $h_{CG} = 1 \text{ m} + 1.5 \text{ m} = 2.5 \text{ m}$
 $F = \rho g h_{CG} A = \rho g (2.5 \text{ m}) A$...

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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

Fluid Mechanics—Chapter 1—Introduction to Fluid Mechanics

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'Fluid mechanics' is the merger of hydraulics and hydrodynamics. Hydraulics developed as an empirical science beginning in prehistorical times. The advent of hydrodynamics, which tackles fluid movement theoretically, was in the eighteenth century.

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