

Fluid Mechanics Study Guide

Chapter 1. Fundamental concepts

Density: $\rho = \frac{m}{V}$

Specific weight: $\gamma = \frac{W}{V} \quad \gamma = \rho g$

Specific gravity: $SG = \frac{\gamma}{\gamma(\text{ref})} = \frac{\rho}{\rho(\text{ref})}$

Ideal gas law: $p = \rho RT \quad (R=286.9\text{J/kg.K, } J=\text{N.m})$

Bulk modulus (a measure of the amount by which a fluid offers a resistance to compression):

$$E = - \frac{dP}{dV/V}$$

Viscosity: mass/(time*length)

Shear stress (the motion which is a consequence of the shearing effect within the fluid caused by the plate): $\tau = \frac{dF}{dA} \quad \tau = \mu * \frac{du}{dy}$

Shear strain (the shear stress causes each element to deform into shape of a parallelogram, the resulting deformation is defined by its shear strain, specified by the small angle $\Delta\alpha$):

$$\Delta\alpha = \tan \Delta\alpha = \frac{\Delta x}{\Delta y}$$

Newton's law of viscosity: $\tau = \mu * \frac{du}{dy}$

Fluid Mechanics Study Guide Answers

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