

PHYSICS I: Fluid Mechanics

Class notes: Topic, rules, and formula. From the formula given, you can derive the equations.

- ❖ The **density** of a substance is simply the ratio of its mass to its volume. It also dictates if the substance (solid or fluid) sinks or floats in a mixture with a fluid.

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

- ❖ The **specific density** (also referred to as *relative density* or *specific gravity*) is a dimensionless quantity that relates the density of a substance relative to a reference.

$$\text{specific gravity} = \frac{\rho(\text{substance})}{\rho(\text{reference})}$$

- ❖ For solids and liquids, the reference substance is water at 4 °C ($\rho = 1000 \text{ kg/m}^3$). For gases, the reference substance used is oxygen at 0 °C and 1 atm pressure ($\rho = 1.43 \text{ kg/m}^3$).

- ❖ **Pressure** refers to the force exerted per unit area. For fluids, this physical quantity is dependent on the fluid height, not volume.

$$\text{Pressure} = \frac{\text{Force}}{\text{Area}}$$

- ❖ For fluids, pressure values vary depending on the method used. Typical pressure readings report the fluid's **gauge pressure**, whereas the fluid's **absolute pressure** is the sum of the gauge pressure and the pressure of its environment (typically air).

$$\text{Gauge pressure} \quad P_g = \rho g h$$

$$\text{Absolute pressure} \quad P_{\text{abs}} = P_g + \rho g h$$

$$\text{Barometric pressure}$$

Physics Fluid Mechanics Study Guide

Scott C. Dulebohn



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Cullen, Rodolfo J. Románach, Nicolas Abatzoglou, Chris D. Rielly, 2015-05-11 Written in four parts this book provides a dedicated and in depth reference for blending within the pharmaceutical manufacturing industry It links the science of blending with regulatory requirements associated with pharmaceutical manufacture The contributors are a combination of leading academic and industrial experts who provide an informed and industrially relevant perspective of the topic This is an essential book for the pharmaceutical manufacturing industry and related academic researchers in pharmaceutical science and chemical and mechanical engineering

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[Mechanics of Fibrous Materials and Applications](#) Catalin Picu, Jean-François Ganghoffer, 2019-07-31 The book explores the state of the art in the mechanics of fibrous media providing an overview of the theoretical modelling and practical aspects of designing and working with these materials It also describes the advanced methods needed to handle their specific features including the mechanics of generalized continua dedicated homogenization methods and computational techniques and presents applications of fibrous media to diverse fields and over a broad spectrum of scales ranging from aeronautics to biomechanics

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