

Ideal Gases

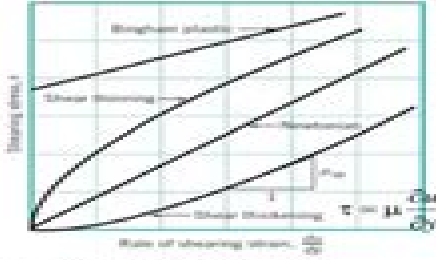
- From chemistry: $PV = nRT$ (V is volume)
 - $n = m / M$ is the number of moles
 - for mass in kg n is in kilogram moles (kmol); for mass in lb_m, n is in pound moles (lbmol)
 - $R = 8.31447$ kJ/kmol-K = 10.7316 psia-ft³ / lbmol-R is universal gas constant
 - $R = R/M$ is engineering gas constant that is different for each gas
 - Real gases like ideal gases at low pressures
 - $P = nRT / V = (m/M)RT / V = (m/V)(R/M)T$
 $P = \rho RT$



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Viscosity

Newtonian and non-Newtonian
Variation of shear stress with rate of shearing strain for several types of fluids, including common non-Newtonian fluids.





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Surface Tension Rise



- Vertical force balance: $\gamma \pi R^2 h = 2 \pi R \sigma \cos \theta$
 - Surface tension depends on fluid and temperature, wetting angle, θ , depends on fluid and surface

$$h = \frac{2 \sigma \cos \theta}{\gamma R}$$



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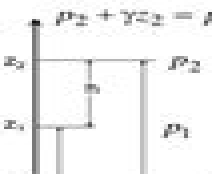
Pressure Relations

- Pressure is a scalar
- The force exerted by a pressure is the same in all directions
- Want to see how pressure changes in a static (nonmoving fluid)
- Look at balance of pressure force and fluid weight over a differential volume element, $\Delta x \Delta y \Delta z$



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Incompressible Fluid



- Which pressure is higher?
 $p_1 = p_2 + \gamma(z_2 - z_1)$
 $p_1 = p_2 + \gamma h > p_2$
- Pressure increases with depth



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Gage and Absolute Pressure



Figure 1.2.1 Fundamentals of Fluid Mechanics, 6th ed. by Bruce Munson, David Young, and Theodore Stokich. Copyright 2008 by John Wiley & Sons, Inc. All rights reserved.



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Review For Final Exam Fluid Mechanics

Dilip K. Das, Rajaram K. Prabhudesai



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Donald F. Young, Bruce R. Munson, Theodore H. Okiishi, Wade W. Huebsch, 2010-11-23 A Brief Introduction to Fluid Mechanics 5th Edition is designed to cover the standard topics in a basic fluid mechanics course in a streamlined manner that meets the learning needs of today's student better than the dense encyclopedic manner of traditional texts This approach helps students connect the math and theory to the physical world and practical applications and apply these connections to solving problems The text lucidly presents basic analysis techniques and addresses practical concerns and applications such as pipe flow open channel flow flow measurement and drag and lift It offers a strong visual approach with photos illustrations and videos included in the text examples and homework problems to emphasize the practical application of fluid mechanics principles

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Civil Engineering Problems and Solutions Donald G. Newnan, 2003-09-18 Written by 6 professors each with a Ph.D. in Civil Engineering A detailed description of the examination and suggestions on how to prepare for it 195 exam essay and multiple choice problems with a total of 510 individual questions A complete 24 problem sample exam A detailed step by step solution for every problem in the book This book may be used as a separate stand alone volume or in conjunction with Civil Engineering License Review 14th Edition 0 79318 546 7 Its chapter topics match those of the License Review book All of the problems have been reproduced for each chapter followed by detailed step by step solutions Similarly the 24 problem sample exam 12 essay and 12 multiple choice problems is given followed by step by step solutions to the exam Engineers looking for a CE PE review with problems and solutions will buy both books Those who want only an elaborate set of exam problems a

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