

and $P_{\text{interface}} = 18.93 \text{ psia}$. Before we had spreadsheets we could have done the same by manual trial and error, or done it analytically. If we equate the two pressures

$$P_{\text{gas}} \cdot \left(\frac{h_2}{h_2 - h_3} - 1 \right) = \rho g (h_1 - h_3); \quad P_{\text{gas}} \cdot \left(\frac{h_2}{h_2 - h_3} \right) = \rho g (h_1 - h_3)$$

$$\frac{P_{\text{gas}} h_2}{\rho g} = (h_1 - h_3) \cdot (h_2 - h_3) = h_2 h_1 - h_2 h_3 - h_3 h_1 + h_3^2, \text{ which can be factored to}$$

$$h_3^2 + h_3 \left(-h_2 - h_1 - \frac{P_{\text{gas}}}{\rho g} \right) + h_2 h_1 = 0; \text{ which is a simple quadratic equation. To simplify, let}$$

$$\left(-h_2 - h_1 - \frac{P_{\text{gas}}}{\rho g} \right) = A, \text{ so that } h_3 = \frac{-A \pm \sqrt{A^2 - 4 h_2 h_1}}{2} \text{ Now we can insert values}$$

$$\left(-h_2 - h_1 - \frac{P_{\text{gas}}}{\rho g} \right) = A = \left(-1 \text{ ft} - 10 \text{ ft} - \frac{14.7 \frac{\text{lbf}}{\text{in}^2}}{62.3 \frac{\text{lbm}}{\text{ft}^3} \cdot 32.2 \frac{\text{ft}}{\text{s}^2}} \cdot \frac{144 \text{ in}^2}{\text{ft}^2} \cdot \frac{32.2 \text{ lbm} \cdot \text{ft}}{\text{lbf} \cdot \text{s}^2} \right) = -33.98 \text{ ft}$$

$$\text{and } h_3 = \frac{-(-33.98 \text{ ft}) \pm \sqrt{(-33.98 \text{ ft})^2 - 4 \cdot 10 \text{ ft} \cdot 1 \text{ ft}}}{2} = 0.223 \text{ ft} = 2.68 \text{ in}$$

The liquid pressure is

$$P_{\text{liquid}} = 14.7 \text{ psia} + (10 - 0.223) \text{ ft} \cdot 62.3 \frac{\text{lbm}}{\text{ft}^3} \cdot 32.2 \frac{\text{ft}}{\text{s}^2} \cdot \frac{\text{ft}^2}{144 \text{ in}^2} \cdot \frac{\text{lbf} \cdot \text{s}^2}{32.2 \text{ lbm} \cdot \text{ft}} = 18.94 \text{ psia}$$

while the gas pressure is

$$P_{\text{gas}} = 14.7 \text{ psia} \cdot \left(\frac{1 \text{ ft}}{1 \text{ ft} - 0.223 \text{ ft}} \right) = 18.94 \text{ psia}$$

This has an elegance which the spreadsheet does not.

2.13 (a) See the solution to problem 2.8., $P = 16,099 \text{ psig}$

$$(b) \quad dP = \rho g dh = \rho_0 g \left[1 + \beta (P - P_0) \right] dh$$

$$\int_{P_0}^P \frac{dP}{1 + \beta P - \beta P_0} = \rho_0 g \int_0^h dh = \rho_0 g h \Big|_0^h = \frac{1}{\beta} \ln(1 + \beta P - \beta P_0) \Big|_{P_0}^P$$

Solution Manual For Fluid Mechanics Chemical Engineers 3rd Edition

**Donald F. Young, Bruce R.
Munson, Theodore H. Okiishi, Wade W.
Huebsch**

Solution Manual For Fluid Mechanics Chemical Engineers 3rd Edition:

Analysis, Synthesis and Design of Chemical Processes Richard Turton, Richard C. Bailie, Wallace B. Whiting, Joseph A. Shaeiwitz, 2008-12-24 The Leading Integrated Chemical Process Design Guide Now with New Problems New Projects and More More than ever effective design is the focal point of sound chemical engineering Analysis Synthesis and Design of Chemical Processes Third Edition presents design as a creative process that integrates both the big picture and the small details and knows which to stress when and why Realistic from start to finish this book moves readers beyond classroom exercises into open ended real world process problem solving The authors introduce integrated techniques for every facet of the discipline from finance to operations new plant design to existing process optimization This fully updated Third Edition presents entirely new problems at the end of every chapter It also adds extensive coverage of batch process design including realistic examples of equipment sizing for batch sequencing batch scheduling for multi product plants improving production via intermediate storage and parallel equipment and new optimization techniques specifically for batch processes Coverage includes Conceptualizing and analyzing chemical processes flow diagrams tracing process conditions and more Chemical process economics analyzing capital and manufacturing costs and predicting or assessing profitability Synthesizing and optimizing chemical processing experience based principles BFD PFD simulations and more Analyzing process performance via I O models performance curves and other tools Process troubleshooting and debottlenecking Chemical engineering design and society ethics professionalism health safety and new green engineering techniques Participating successfully in chemical engineering design teams Analysis Synthesis and Design of Chemical Processes Third Edition draws on nearly 35 years of innovative chemical engineering instruction at West Virginia University It includes suggested curricula for both single semester and year long design courses case studies and design projects with practical applications and appendixes with current equipment cost data and preliminary design information for eleven chemical processes including seven brand new to this edition

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A Brief Introduction to Fluid Mechanics 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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Formulas and Calculations for Drilling Operations James G. Speight, 2018-04-10 Newly revised this is still the must have guide for any drilling production or petroleum engineer with thousands of handy formulas and calculations that the engineer needs on a daily basis Presented in an easy to use format this second edition of Formulas and Calculations for Drilling Operations is a quick reference for day to day work out on the rig It also serves as a handy study guide for drilling and well control certification courses Virtually all the mathematics required on a drilling rig is here in one convenient source including formulas for pressure gradient specific gravity pump output annular velocity buoyancy factor and many other topics Whether open on your desk on the hood of your truck at the well or on an offshore platform this is the only book available that covers the gamut of the formulas and calculations for petroleum engineers that have been compiled over decades Some of these formulas and calculations have been used for decades while others are meant to help guide the engineer through some of the more recent breakthroughs in the industry s technology such as hydraulic fracturing and enhanced oil recovery There is no other source for these useful formulas and calculations that is this thorough An instant classic when the first edition was published the much improved revision is even better offering new information not available in the first edition making it as up to date as possible in book form Truly a state of the art masterpiece for the oil and gas industry if there is only one book you buy to help you do your job this is it

Heat Exchangers Sadik Kakaç, Hongtan Liu, Anchasa

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Cartaxo,2022-04-19 This book explains basics from physical chemistry and fluid mechanics to understand construct and apply tubular heat exchangers for the chemical industry Examples from practice highlight the required equations physical properties and raise critical steps for the design of for example tubular double pipe multi tubes and finned heat exchangers Exercises and corresponding solutions deepen the gained knowledge and clarify the described theory **Catalog of**

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