(a) $BF = \rho V \omega^2 r = \left(62.3 \dfrac{\text{lbm}}{\text{ft}^3}\right)(0.01 \text{in}^3)\left(\dfrac{2\pi \cdot 1000}{\text{min}} \cdot \dfrac{\text{min}}{60 \text{s}}\right)^2 (15 \text{in}) \dfrac{\text{lbf s}^2}{32.17 \text{lbm ft}} \cdot \left(\dfrac{\text{ft}^2}{144 \text{in}^2}\right)^2$

$\quad = 0.153 \text{lbf} = 0.683 \text{ N}$

(b) This points toward the axis of rotation.

---

**2.73** See the sketch at the right. Work in gage pressure.

$P_1 = 0$

$P_2 = P_1 \rho g(h_2 - h_1)$
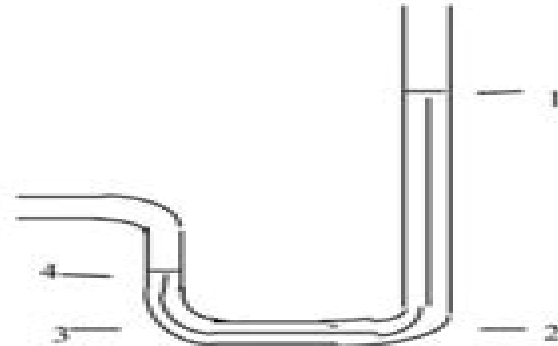
$P_3 = P_2 + \dfrac{\rho \omega^2}{2}(r_3^2 - r_2^2)$

$P_4 = P_3 + \rho g(h_4 - h_3)$



Adding these and canceling like terms

$P_4 = \rho \left[ g(h_4 - h_1) + \dfrac{\omega^2}{2}(r_3^2 - r_2^2) \right]$

$\omega = \dfrac{2\pi \cdot 10}{60 \text{ s}} = 1.0472 \dfrac{1}{\text{s}}$

$P_4 = 62.3 \dfrac{\text{lbm}}{\text{ft}^3} \left[ 32.2 \dfrac{\text{ft}}{\text{s}^2} \cdot 4 \text{ ft} + \dfrac{1}{2} \cdot \left(\dfrac{1.0472}{\text{s}}\right)^2 \cdot \left((22 \text{ ft})^2 - (24 \text{ ft})^2\right) \right] \cdot \dfrac{\text{lbf s}^2}{32.2 \text{ lbm ft}} \cdot \dfrac{\text{ft}^2}{144 \text{ in}^2}$

$\quad = 62.3 \cdot [128.8 - 50.44] \dfrac{}{32.2 \cdot 144} = 1.053 \text{ psig} = 7.26 \text{kPa gauge}$

---

**2.74** The gasoline-air interface is a parabola, as shown in example 2.19 Using the sketch at the right, we compute the pressure at C, two ways, finding
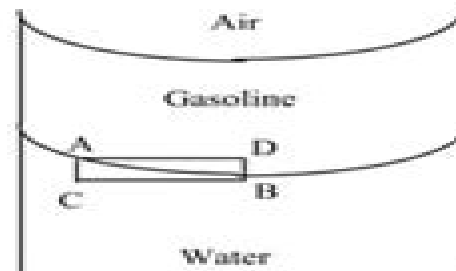


By path DBC

$P_C = P_D + \rho_{gasoline} g \Delta z + \rho_{water} \dfrac{\omega^2}{2}(\Delta r)^2$

By path DAC

$P_C = P_D + \rho_{gasoline} \dfrac{\omega^2}{2}(\Delta r)^2 + \rho_{water} g \Delta z$

Subtracting the second from the first

$0 = \left(\rho_{water} - \rho_{gasoline}\right)\dfrac{\omega^2}{2}(\Delta r)^2 - \left(\rho_{water} - \rho_{gasoline}\right)g\Delta z$

# Fluid Mechanics For Chemical Engineers 3rd Edition

**Donald C. Rennels,Hobart M. Hudson**

**Fluid Mechanics For Chemical Engineers 3rd Edition:**

   **Fluid Mechanics for Chemical Engineers** Noel De Nevers,2011    **Fluid Mechanics for Chemical Engineers with Engineering Subscription Card** Noel De Nevers,2004-02 Fluid Mechanics for Chemical Engineers third edition retains the characteristics that made this introductory text a success in prior editions It is still a book that emphasizes material and energy balances and maintains a practical orientation throughout No more math is included than is required to understand the concepts presented To meet the demands of today s market the author has included many problems suitable for solution by computer Three brand new chapters are included Chapter 15 on Two and Three Dimensional Fluid Mechanics Chapter 19 on Mixing and Chapter 20 on Computational Fluid Dynamics CFD    **Fluid Mechanics for Chemical Engineers** James O. Wilkes,2017-07-20 The Chemical Engineer s Practical Guide to Fluid Mechanics Now Includes COMSOL Multiphysics 5 Since most chemical processing applications are conducted either partially or totally in the fluid phase chemical engineers need mastery of fluid mechanics Such knowledge is especially valuable in the biochemical chemical energy fermentation materials mining petroleum pharmaceuticals polymer and waste processing industries Fluid Mechanics for Chemical Engineers with Microfluidics CFD and COMSOL Multiphysics 5 Third Edition systematically introduces fluid mechanics from the perspective of the chemical engineer who must understand actual physical behavior and solve real world problems Building on the book that earned Choice Magazine s Outstanding Academic Title award this edition also gives a comprehensive introduction to the popular COMSOL Multiphysics 5 software This third edition contains extensive coverage of both microfluidics and computational fluid dynamics systematically demonstrating CFD through detailed examples using COMSOL Multiphysics 5 and ANSYS Fluent The chapter on turbulence now presents valuable CFD techniques to investigate practical situations such as turbulent mixing and recirculating flows Part I offers a clear succinct easy to follow introduction to macroscopic fluid mechanics including physical properties hydrostatics basic rate laws and fundamental principles of flow through equipment Part II turns to microscopic fluid mechanics Differential equations of fluid mechanics Viscous flow problems some including polymer processing Laplace s equation irrotational and porous media flows Nearly unidirectional flows from boundary layers to lubrication calendering and thin film applications Turbulent flows showing how the k method extends conventional mixing length theory Bubble motion two phase flow and fluidization Non Newtonian fluids including inelastic and viscoelastic fluids Microfluidics and electrokinetic flow effects including electroosmosis electrophoresis streaming potentials and electroosmotic switching Computational fluid mechanics with ANSYS Fluent and COMSOL Multiphysics Nearly 100 completely worked practical examples include 12 new COMSOL 5 examples boundary layer flow non Newtonian flow jet flow die flow lubrication momentum diffusion turbulent flow and others More than 300 end of chapter problems of varying complexity are presented including several from University of Cambridge exams The author covers all material needed for the fluid mechanics portion of the professional engineer s exam The author s website fmche engin umich edu provides

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user friendly environment Chemical Engineering Computation with MATLAB presents basic to advanced levels of problem solving techniques using MATLAB as the computation environment The book provides examples and problems extracted from core chemical engineering subject areas and presents a basic instruction in the use of MATLAB for problem solving It provides many examples and exercises and extensive problem solving instruction and solutions for various problems Solutions are developed using fundamental principles to construct mathematical models and an equation oriented approach is used to generate numerical results A wealth of examples demonstrate the implementation of various problem solving approaches and methodologies for problem formulation problem solving analysis and presentation as well as visualization and documentation of results This book also provides aid with advanced problems that are often encountered in graduate research and industrial operations such as nonlinear regression parameter estimation in differential systems two point boundary value problems and partial differential equations and optimization *Molecular Thermodynamics of Fluid-Phase Equilibria* John M. Prausnitz,Rudiger N. Lichtenthaler,Edmundo Gomes de Azevedo,1998-10-22 The classic guide to mixtures completely updated with new models theories examples and data Efficient separation operations and many other chemical processes depend upon a thorough understanding of the properties of gaseous and liquid mixtures Molecular Thermodynamics of Fluid Phase Equilibria Third Edition is a systematic practical guide to interpreting correlating and predicting thermodynamic properties used in mixture related phase equilibrium calculations Completely updated this edition reflects the growing maturity of techniques grounded in applied statistical thermodynamics and molecular simulation while relying on classical thermodynamics molecular physics and physical chemistry wherever these fields offer superior solutions Detailed new coverage includes Techniques for improving separation processes and making them more environmentally friendly Theoretical concepts enabling the description and interpretation of solution properties New models notably the lattice fluid and statistical associated fluid theories Polymer solutions including gas polymer equilibria polymer blends membranes and gels Electrolyte solutions including semi empirical models for solutions containing salts or volatile electrolytes Coverage also includes fundamentals of classical thermodynamics of phase equilibria thermodynamic properties from volumetric data intermolecular forces fugacities in gas and liquid mixtures solubilities of gases and solids in liquids high pressure phase equilibria virial coefficients for quantum gases and much more Throughout Molecular Thermodynamics of Fluid Phase Equilibria strikes a perfect balance between empirical techniques and theory and is replete with useful examples and experimental data More than ever it is the essential resource for engineers chemists and other professionals working with mixtures and related processes **Fluid Mechanics** Carl Schaschke,2005 This is a collection of problems and solutions in fluid mechanics for students of all engineering disciplines The text is intended to support undergraduate courses and be useful to academic tutors in supervising design projects Teaching and Learning of Fluid Mechanics Ashwin Vaidya,2020-12-02 This book contains research on the pedagogical aspects of fluid mechanics and includes case studies

lesson plans articles on historical aspects of fluid mechanics and novel and interesting experiments and theoretical calculations that convey complex ideas in creative ways The current volume showcases the teaching practices of fluid dynamicists from different disciplines ranging from mathematics physics mechanical engineering and environmental engineering to chemical engineering The suitability of these articles ranges from early undergraduate to graduate level courses and can be read by faculty and students alike We hope this collection will encourage cross disciplinary pedagogical practices and give students a glimpse of the wide range of applications of fluid dynamics **Numerical Methods for Chemical Engineers with MATLAB Applications** A. Constantinides,Navid Mostoufi,1999 Master numerical methods using MATLAB today s leading software for problem solving This complete guide to numerical methods in chemical engineering is the first to take full advantage of MATLAB s powerful calculation environment Every chapter contains several examples using general MATLAB functions that implement the method and can also be applied to many other problems in the same category The authors begin by introducing the solution of nonlinear equations using several standard approaches including methods of successive substitution and linear interpolation the Wegstein method the Newton Raphson method the Eigenvalue method and synthetic division algorithms With these fundamentals in hand they move on to simultaneous linear algebraic equations covering matrix and vector operations Cramer s rule Gauss methods the Jacobi method and the characteristic value problem Additional coverage includes Finite difference methods and interpolation of equally and unequally spaced points Numerical differentiation and integration including differentiation by backward forward and central finite differences Newton Cotes formulas and the Gauss Quadrature Two detailed chapters on ordinary and partial differential equations Linear and nonlinear regression analyses including least squares estimated vector of parameters method of steepest descent Gauss Newton method Marquardt Method Newton Method and multiple nonlinear regression The numerical methods covered here represent virtually all of those commonly used by practicing chemical engineers The focus on MATLAB enables readers to accomplish more with less complexity than was possible with traditional FORTRAN For those unfamiliar with MATLAB a brief introduction is provided as an Appendix Over 60 MATLAB examples methods and function scripts are covered and all of them are included on the book s CD **Information Sources in Engineering** Roderick A. Macleod,Jim Corlett,2012-04-17 The current thoroughly revised and updated edition of this approved title evaluates information sources in the field of technology It provides the reader not only with information of primary and secondary sources but also analyses the details of information from all the important technical fields including environmental technology biotechnology aviation and defence nanotechnology industrial design material science security and health care in the workplace as well as aspects of the fields of chemistry electro technology and mechanical engineering The sources of information presented also contain publications available in printed and electronic form such as books journals electronic magazines technical reports dissertations scientific reports articles from conferences meetings and symposiums patents and patent information technical standards products

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Multiphase Particulate Systems in Turbulent Flows Fluid Liquid and Solid Liquid Dispersions provides methods necessary to analyze complex particulate systems and related phenomena including physical chemical and mathematical description of fundamental processes influencing crystal size and shape suspension rheology interfacial area of drops and bubbles in extractors and bubble columns Examples of mathematical model formulation for different processes taking place in such systems is shown Discussing connections between turbulent mixing mechanisms and precipitation it discusses influence of fine scale structure of turbulence including its intermittent character on breakage of drops bubbles cells plant cell aggregates An important aspect of the mathematical modeling presented in the book is multi fractal taking into account the influence of internal intermittency on different phenomena Key Features Provides detailed descriptions of dispersion processes in turbulent flow interactions between dispersed entities and continuous phase in a single volume Includes simulation models and validation experiments for liquid liquid gas liquid and solid liquid dispersions in turbulent flows Helps reader learn formulation of mathematical models of breakage or aggregation processes using multifractal theory Explains how to solve different forms of population balance equations Presents a combination of theoretical and engineering approaches to particulate systems along with discussion of related diversity with exercises and case studies      Diffusion E. L. Cussler,1997-02-28 Clear and complete description of diffusion in fluids for undergraduate students in chemical engineering      **Process Control** B. Wayne Bequette,2003 Master process control hands on through practical examples and MATLAB R simulations This is the first complete introduction to process control that fully integrates software tools enabling professionals and students to master critical techniques hands on through computer simulations based on the popular MATLAB environment Process Control Modeling Design and Simulation teaches the field s most important techniques behaviors and control problems through practical examples supplemented by extensive exercises with detailed derivations relevant software files and additional techniques available on a companion Web site Coverage includes Fundamentals of process control and instrumentation including objectives variables and block diagrams Methodologies for developing dynamic models of chemical processes Dynamic behavior of linear systems state space models transfer function based models and more Feedback control proportional integral and derivative PID controllers and closed loop stability analysis Frequency response analysis techniques for evaluating the robustness of control systems Improving control loop performance internal model control IMC automatic tuning gain scheduling and enhancements to improve disturbance rejection Split range selective and override strategies for switching among inputs or outputs Control loop interactions and multivariable controllers An introduction to model predictive control MPC Bequette walks step by step through the development of control instrumentation diagrams for an entire chemical process reviewing common control strategies for individual unit operations then discussing strategies for integrated systems The book also includes 16 learning modules demonstrating how to use MATLAB and SIMULINK to solve several key control problems ranging from robustness analyses to biochemical reactors

biomedical problems to multivariable control **Techniques of Model-based Control** Coleman Brosilow,Babu Joseph,2002 Annotation In this book two of the field s leading experts bring together powerful advances in model based control for chemical process engineering From start to finish Coleman Brosilow and Babu Joseph introduce practical approaches designed to solve real world problems not just theory The book contains extensive examples and exercises and an accompanying CD ROM contains hands on MATLAB files that supplement the examples and help readers solve the exercises a feature found in no other book on the topic

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