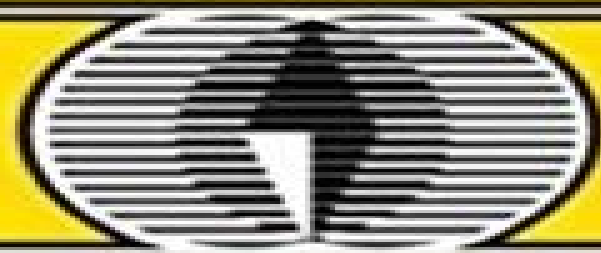


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Fluid Mechanics for Chemical Engineers

Second Edition, with Microfluidics and CFD

Prentice Hall International Series
in the Physical and Chemical
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Fluid Mechanics For Chemical Engineers With Microfluidics And Cfd 2nd Edition

F. Holland, R. Bragg



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Membrane Filtration Greg Foley, 2013-07-04 Focusing on the application of membranes in an engineering context this hands on computational guide makes previously challenging problems routine It formulates problems as systems of equations solved with MATLAB encouraging active learning through worked examples and end of chapter problems The detailed treatments of dead end filtration include novel approaches to constant rate filtration and filtration with a centrifugal pump The discussion of crossflow microfiltration includes the use of kinetic and force balance models Comprehensive coverage of ultrafiltration and diafiltration processes employs both limiting flux and osmotic pressure models The effect of fluid viscosity on the mass transfer coefficient is explored in detail the effects of incomplete rejection on the design and analysis of ultrafiltration and diafiltration are analysed and quantitative treatments of reverse osmosis and nanofiltration process analysis and design are explored Includes a chapter dedicated to the modelling of membrane fouling

Fundamentals of Natural Gas Processing Arthur J. Kidnay, William R. Parrish, Daniel G. McCartney, 2011-01-05 Offering indispensable insight from experts in the field Fundamentals of Natural Gas Processing Second Edition provides an introduction to the gas industry and the processes required to convert wellhead gas into valuable natural gas and hydrocarbon liquids products The authors compile information from the literature meeting proceedings and the

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Essentials of Chemical Reaction Engineering H. Scott Fogler, 2017-10-26 Today's Definitive Undergraduate Level Introduction to Chemical Reaction Engineering Problem Solving For 30 years H Scott Fogler's Elements of Chemical Reaction Engineering has been the 1 selling text for courses in chemical reaction engineering worldwide Now in Essentials of Chemical Reaction Engineering Second Edition Fogler has distilled this classic into a modern introductory level guide specifically for undergraduates This is the ideal resource for today's students learners who demand instantaneous access to information and want to enjoy learning as they deepen their critical thinking and creative problem solving skills Fogler successfully integrates text visuals and computer simulations and links theory to practice through many relevant examples This updated second edition covers mole balances conversion and reactor sizing rate laws and stoichiometry isothermal reactor design rate data collection analysis multiple reactions reaction mechanisms pathways bioreactions and bioreactors catalysis catalytic reactors nonisothermal reactor designs and more Its multiple improvements include a new discussion of activation energy molecular simulation and stochastic modeling and a significantly revamped chapter on heat effects in chemical reactors To promote the transfer of key skills to real life settings Fogler presents three styles of problems Straightforward problems that reinforce the principles of chemical reaction engineering Living Example Problems LEPs that allow students to rapidly explore the issues and look for optimal solutions Open ended problems that encourage students to use inquiry based learning to practice creative problem solving skills About the Web Site umich.edu/elements/5e/index.html The companion Web site offers extensive enrichment opportunities and additional content including Complete PowerPoint slides for lecture notes for chemical reaction engineering classes Links to additional software including Polymath MATLAB Wolfram Mathematica AspenTech and COMSOL Multiphysics Interactive learning resources linked to each chapter including Learning Objectives Summary Notes Web Modules Interactive Computer Games Computer Simulations and Experiments Solved Problems FAQs and links to LearnChemE Living Example Problems that provide more than 75 interactive simulations allowing students to explore the examples and ask what if questions Professional Reference Shelf containing advanced content on reactors weighted least

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Modern Fluid Dynamics Clement Kleinstreuer,2018-04-25 Modern Fluid Dynamics Second Edition provides up to date coverage of intermediate and advanced fluids topics The text emphasizes fundamentals and applications supported by worked examples and case studies Scale analysis non Newtonian fluid flow surface coating convection heat transfer lubrication fluid particle dynamics microfluidics entropy generation and fluid structure interactions are among the topics covered Part A presents fluids principles and prepares readers for the applications of fluid dynamics covered in Part B which includes computer simulations and project writing A review of the engineering math needed for fluid dynamics is included in an appendix **Micro Process Engineering, 3 Volume Set** Volker Hessel,Albert Renken,Jaap C. Schouten,Jun-Ichi Yoshida,2009-03-23 This three volume handbook provides an overview of the key aspects of micro process engineering Volume 1 covers the fundamentals operations and catalysts volume 2 examines devices reactions and applications with volume 3 rounding off the trilogy with system process and plant engineering Fluid dynamics mixing heat mass transfer purification and separation microstructured devices and microstructured reactors are explained in the first volume Volume 2 segments microreactor design fabrication and assembly bulk and fine chemistry polymerisation fuel processing and functional materials into understandable parts The final volume of the handbook addresses microreactor systems design and scale up sensing analysis and control chemical process engineering economic and eco efficiency analyses as well as microreactor plant case studies in one book Together this 3 volume handbook explains the science behind micro process engineering to the scale up and their real life industrial applications **Fluid Flow for Chemical Engineers** F. Holland,R. Bragg,1995-03-17 This major new edition of a popular undergraduate text covers topics of interest to chemical engineers taking courses on fluid flow These topics include non Newtonian flow gas liquid two phase flow pumping and mixing It expands on the explanations of principles given in the first edition and is more self contained Two strong features of the first

edition were the extensive derivation of equations and worked examples to illustrate calculation procedures These have been retained A new extended introductory chapter has been provided to give the student a thorough basis to understand the methods covered in subsequent chapters

Fluid Mechanics for Chemical Engineering Mathieu Mory, 2013-03-01 The book aims at providing to master and PhD students the basic knowledge in fluid mechanics for chemical engineers Applications to mixing and reaction and to mechanical separation processes are addressed The first part of the book presents the principles of fluid mechanics used by chemical engineers with a focus on global theorems for describing the behavior of hydraulic systems The second part deals with turbulence and its application for stirring mixing and chemical reaction The third part addresses mechanical separation processes by considering the dynamics of particles in a flow and the processes of filtration fluidization and centrifugation The mechanics of granular media is finally discussed

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