

Chapter 2

Short Answer Problems

- The LMTD factor is required for heat exchangers when the two streams do not exhibit pure counter-current flow. Most exchangers such as S&T and other arrangements fall into this category.
- This statement is not generally true. In fact, condensers often have high heat transfer coefficients on the condensing side. One exception is for partial condensers where the majority of the condenser-side of the exchanger comprises of non-condensing gas – in this case the heat transfer coefficient on the condensing side may be limiting.
- Turbulent flow on both sides of the heat exchanger – see Table 2.9

a.	Shell-side	$h \propto Re_{0.6}$	$\frac{h}{h_{\text{base case}}} = \frac{1.5^{0.6}}{1}$	1.275 or and increase of 27.5%
b.	Tube-side	$h \propto Re_{0.8}$	$\frac{h}{h_{\text{base case}}} = \frac{1.5^{0.8}}{1}$	1.383 or and increase of 38.3%
- Laminar flow on both sides of the heat exchanger – see Table 2.9

a.	Shell-side	$h \propto Re_{0.45}$	$\frac{h}{h_{\text{base case}}} = \frac{1.5^{0.45}}{1}$	1.20 or and increase of 20%
b.	Tube-side	$h \propto Re_{0.3}$	$\frac{h}{h_{\text{base case}}} = \frac{1.5^{0.3}}{1}$	1.145 or and increase of 14.5%
- All else considered, the heat transfer coefficient for turbulent flow will be (much) higher than for laminar flow. For this reason when possible flow should be in the turbulent regime.
- Refer to Section 2.2.1.7 – three reasons for placing a fluid on the tube side of a S&T exchanger
 - 2-If the fluid is corrosive
 - 2-If the fluid causes severe fouling or scaling
 - 2-If the fluid is at a much higher pressure than the other fluid
 - 2-If the fluid has a much higher film coefficient
 - 2-If the material in contact with the fluid must be an expensive alloy

Chemical Process Design And Integration Solution Manual

Shukun Lin



Chemical Process Design And Integration Solution Manual:

Chemical Process Design and Integration Robin Smith, 2016-08-08 Written by a highly regarded author with industrial and academic experience this new edition of an established bestselling book provides practical guidance for students researchers and those in chemical engineering The book includes a new section on sustainable energy with sections on carbon capture and sequestration as a result of increasing environmental awareness and a companion website that includes problems worked solutions and Excel spreadsheets to enable students to carry out complex calculations Chemical Process Design and Integration Robin Smith, 2005 Market_Desc Professionals Undergraduates Special Features This timely volume Reflects the recent significant advances made in the process industries Covers how environmental issues have affected chemical process design Presented in an accessible easy to understand way About The Book This book deals with the design and integration of chemical processes emphasizing the conceptual issues that are fundamental to the creation of the process Chemical process design requires the selection of a series of processing steps and their integration to form a complete manufacturing system The text emphasizes both the design and selection of the steps as individual operations and their integration Also the process will normally operate as part of an integrated manufacturing site consisting of a number of processes serviced by a common utility system The design of utility systems has been dealt with in the text so that the interactions between processes and the utility system and interactions between different processes through the utility system can be exploited to maximize the performance of the site as a whole Chemical Process Design Robin Smith, 1995 Chemical process design involves the invention or synthesis of a process to transform raw materials into a desired product Using a minimum of mathematics this book offers chemical engineers a complete guide to selecting connecting the steps for a well designed process Flowsheet synthesis the choice of reactor separator distillation sequencing economic trade offs are explored in detail Special emphasis is placed on energy efficiency waste minimization health safety considerations with worked examples case studies presented to illustrate important points *Collaborative and Distributed Chemical Engineering. From Understanding to Substantial Design Process Support* Manfred Nagl, Wolfgang Marquardt, 2008-07-23 IMPROVE stands for Information Technology Support for Collaborative and Distributed Design Processes in Chemical Engineering and is a large joint project of research institutions at RWTH Aachen University This volume summarizes the results after 9 years of cooperative research work The focus of IMPROVE is on understanding formalizing evaluating and consequently improving design processes in chemical engineering In particular IMPROVE focuses on conceptual design and basic engineering where the fundamental decisions concerning the design or redesign of a chemical plant are undertaken Design processes are analyzed and evaluated in collaboration with industrial partners *Integrated Design and Simulation of Chemical Processes* Alexandre C. Dimian, 2003-05-13 This title aims to teach how to invent optimal and sustainable chemical processes by making use of systematic conceptual methods and computer simulation techniques The material

covers five sections process simulation thermodynamic methods process synthesis process integration and design project including case studies It is primarily intended as a teaching support for undergraduate and postgraduate students following various process design courses and projects but will also be of great value to professional engineers interested in the newest design methods Provides an introduction to the newest design methods Of great value to undergraduate and postgraduate students as well as professional engineers Numerous examples illustrate theoretical principles and design issues

The Art of Chemical Process Design G. L. Wells, L. M. Rose, 1986 Illustrating all aspects of chemical process design this book demonstrates process synthesis material and heat balancing by manual and computerised methods the use of flowsheeting programs and their construction flowsheet development plant safety process economics and project engineering The reader is introduced to each of the key areas and is given further information to follow these up The process is developed as a whole entity with appropriate partitioning of certain tasks In recent years there has been increased activity in process synthesis particularly in the development of heat exchanger networks and distillation trains Various chapters describe and develop these and other areas of interest In particular note is made of the need to select appropriate unit operations for given process tasks Traditional manual methods of material and heat balancing introduce the computerised methods used in flowsheeting programs Plant safety continues to generate professional and public interest as catastrophes continue to occur The recent developments in this area are described

Chemical Engineering Design and Analysis Solutions Manual T. Michael Duncan, Jeffrey A. Reimer, 1998-09 This solutions manual accompanies the author's text Chemical Engineering Design and Analysis ISBN 0 521 646065 published by Cambridge University Press in 1998

Process Integration for Resource Conservation Dominic C.Y. Foo, 2025-01-31 To achieve environmental sustainability in industrial plants resource conservation activities such as material recovery have begun incorporating process integration techniques for reusing and recycling water utility gases solvents and solid waste Process Integration for Resource Conservation presents state of the art cost effective techniques including pinch analysis and mathematical optimization for numerous conservation problems The second edition of this best seller adds new chapters on heat integration and retrofitting of resource conservation networks and features multiple optimization examples via downloadable MS Excel spreadsheets Emphasizes the goal of setting performance targets ahead of detailed design following the holistic philosophy of process integration Explains various industrial examples step by step and offers demo software and other materials online Features a wealth of industrial case studies Adds chapters on heat integration combined heat and power heat integrated water network and retrofit of resource conservation network Adds new optimization examples and downloadable MS Excel files on superstructural approaches and automated targeting models for direct reuse recycle and regeneration Ideal for students preparing for real world work as well as industrial practitioners in chemical processing the text provides a systematic guide to the latest process integration techniques for performing material recovery in process plants The book features a solutions manual lecture slides and figure

slides for adopting professors to use in their courses **Sugarcane** Alexandre De Oliveira, 2018-05-16 Sugarcane *Saccharum officinarum* L is considered one of the major bioenergy crops grown globally Thus sugarcane research to improve sustainable production worldwide is a vital task of the scientific community to address the increasing demands and needs for their products especially biofuels In this context this book covers the most recent research areas related to sugarcane production and its applications It is composed of 14 chapters divided into 5 sections that highlight fundamental insights into the current research and technology on this crop Sugarcane Technology and Research intends to provide the reader with a comprehensive overview in technology production and applied and basic research of this bioenergy species approaching the latest developments on varied topics related to this crop Integration of Process Design and Control Evangelhos Zafiriou, 1994 Paperback The existence of interactions between the design of a process and that of its control system have been known to industrial practitioners for a long time In the past decade academic research has produced methodologies and tools that begin to address the issue of designing processes that are flexible can be controlled reliably and are inherently safe This publication unites the work of academics and practitioners with interests in the integration of process design and control in order to examine the state of the art in methodologies and applications The scope covers the design of chemical plants at different stages of detail It also examines control issues from the plantwide level where for example recycles between units can be important to the specific unit level where the availability or selection of measurements might be the most important factor **Chemical Process Analysis and Design Using Computers** Working Party on the Use of Computers in Chemical Engineering. Symposium, 1982 Scientific and Technical Books and Serials in Print , 1989

Chemical Process Shukun Lin, 2016-04 *Solutions Manual for Analysis, Synthesis, and Design of Chemical Processes* Jessica W. Castillo, Richard Turton, Richard C. Bailie, Wallace Whiting, Joseph A. Shaeiwitz, 2012-09-14 **Analysis, Synthesis, and Design of Chemical Processes** Richard Turton, 2012 Process design is the focal point of chemical engineering practice the creative activity through which engineers continuously improve facility operations to create products that enhance life Effective chemical engineering design requires students to integrate a broad spectrum of knowledge and intellectual skills so they can analyze both the big picture and minute details and know when to focus on each Through three previous editions this book has established itself as the leading resource for students seeking to apply what they ve learned in real world open ended process problems The authors help students hone and synthesize their design skills through expert coverage of preliminary equipment sizing flowsheet optimization economic evaluation operation and control simulation and other key topics This new Fourth Edition is extensively updated to reflect new technologies simulation techniques and process control strategies and to include new pedagogical features including concise summaries and end of chapter lists of skills and knowledge Pub desc *27th European Symposium on Computer Aided Process Engineering* , 2017-09-21 27th European Symposium on Computer Aided Process Engineering Volume 40 contains the papers presented at

the 27th European Society of Computer Aided Process Engineering ESCAPE event held in Barcelona October 1 5 2017 It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries Presents findings and discussions from the 27th European Society of Computer Aided Process Engineering ESCAPE event **Scaleup of Chemical Processes** Attilio Bisio,Robert L. Kabel,1985-07-25 The focus of this book is on the technical factors that are critical to the design and startup of a commercial manufacturing facility

Principles of Chemical Engineering Processes - Solutions Manual Nayef Ghasem,Redhouane Henda,2008-09-26

Fourth International Conference on Foundations of Computer-Aided Process Design Lorenz T. Biegler,Michael F. Doherty,1995 Topics of the conference focused on the integration of process design across subsystems downstream concerns such as operability safety and the environment and the opportunities and challenges in design posed by continuous advances in computer hardware and software environments Advanced Control of Chemical Processes ,1991

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