

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	$h \propto Re_{0.8}$	$\frac{h}{h_{\text{base case}}} = \frac{1.5^{0.8}}{1}$	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

Solution Manual Chemical Process Design And Integration

Robin Smith



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Kiss, 2014-09-18 This comprehensive work shows how to design and develop innovative optimal and sustainable chemical processes by applying the principles of process systems engineering leading to integrated sustainable processes with green attributes Generic systematic methods are employed supported by intensive use of computer simulation as a powerful tool for mastering the complexity of physical models New to the second edition are chapters on product design and batch processes with applications in specialty chemicals process intensification methods for designing compact equipment with high energetic efficiency plantwide control for managing the key factors affecting the plant dynamics and operation health safety and environment issues as well as sustainability analysis for achieving high environmental performance All chapters are completely rewritten or have been revised This new edition is suitable as teaching material for Chemical Process and Product Design courses for graduate MSc students being compatible with academic requirements world wide The inclusion of the newest design methods will be of great value to professional chemical engineers Systematic approach to developing innovative and sustainable chemical processes Presents generic principles of process simulation for analysis creation and assessment Emphasis on sustainable development for the future of process industries

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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

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 - The Rise of Digital Reading Solution Manual Chemical Process Design And Integration
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual Chemical Process Design And Integration
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solution Manual Chemical Process Design And Integration
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Chemical Process Design And Integration
 - Personalized Recommendations
 - Solution Manual Chemical Process Design And Integration User Reviews and Ratings
 - Solution Manual Chemical Process Design And Integration and Bestseller Lists
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 - ePub, PDF, MOBI, and More
 - Solution Manual Chemical Process Design And Integration Compatibility with Devices
 - Solution Manual Chemical Process Design And Integration Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solution Manual Chemical Process Design And Integration
 - Highlighting and Note-Taking Solution Manual Chemical Process Design And Integration
 - Interactive Elements Solution Manual Chemical Process Design And Integration
- 8. Staying Engaged with Solution Manual Chemical Process Design And Integration
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Manual Chemical Process Design And Integration
- 9. Balancing eBooks and Physical Books Solution Manual Chemical Process Design And Integration
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual Chemical Process Design And Integration
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solution Manual Chemical Process Design And Integration
 - Setting Reading Goals Solution Manual Chemical Process Design And Integration
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution Manual Chemical Process Design And Integration
 - Fact-Checking eBook Content of Solution Manual Chemical Process Design And Integration
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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