

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

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Table of Contents Solution Manual To Chemical Process Control Chau

1. Understanding the eBook Solution Manual To Chemical Process Control Chau
 - The Rise of Digital Reading Solution Manual To Chemical Process Control Chau
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual To Chemical Process Control Chau
 - 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 To Chemical Process Control Chau
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual To Chemical Process Control Chau
 - Personalized Recommendations
 - Solution Manual To Chemical Process Control Chau User Reviews and Ratings
 - Solution Manual To Chemical Process Control Chau and Bestseller Lists
5. Accessing Solution Manual To Chemical Process Control Chau Free and Paid eBooks

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- Solution Manual To Chemical Process Control Chau eBook Subscription Services
- Solution Manual To Chemical Process Control Chau Budget-Friendly Options
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 - Solution Manual To Chemical Process Control Chau Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solution Manual To Chemical Process Control Chau
 - Highlighting and Note-Taking Solution Manual To Chemical Process Control Chau
 - Interactive Elements Solution Manual To Chemical Process Control Chau
- 8. Staying Engaged with Solution Manual To Chemical Process Control Chau
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Manual To Chemical Process Control Chau
- 9. Balancing eBooks and Physical Books Solution Manual To Chemical Process Control Chau
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual To Chemical Process Control Chau
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solution Manual To Chemical Process Control Chau
 - Setting Reading Goals Solution Manual To Chemical Process Control Chau
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution Manual To Chemical Process Control Chau
 - Fact-Checking eBook Content of Solution Manual To Chemical Process Control Chau
 - 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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