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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
 - Shell-side $h \propto Re^{0.6}$ $\frac{h}{h_{\text{base}}} = \frac{1.5^{0.6}}{1}$ 1.275 or and increase of 27.5%
 - Tube-side $h \propto Re^{0.8}$ $\frac{h}{h_{\text{base}}} = \frac{1.5^{0.8}}{1}$ 1.383 or and increase of 38.3%
- Laminar flow on both sides of the heat exchanger – see Table 2.9
 - Shell-side $h \propto Re^{0.45}$ $\frac{h}{h_{\text{base}}} = \frac{1.5^{0.45}}{1}$ 1.20 or and increase of 20%
 - Tube-side $h \propto Re^{0.3}$ $\frac{h}{h_{\text{base}}} = \frac{1.5^{0.3}}{1}$ 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

Conceptual Design Of Chemical Process Solution Manual

Arturo Cuomo



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Conceptual Design Chemical Processes James Douglas,1988-01-01 *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 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

Solution Manual for Analysis, Synthesis, and Design of Chemical Processes ,2009 Material And Energy Balances For Engineers And Environmentalists (Second Edition) Colin William Oloman,2023-06-20 Material and energy M E balances are fundamental to biological chemical electrochemical photochemical and environmental engineering disciplines and important in many fields related to sustainable development This comprehensive compendium presents the basic M E balance concepts and calculations in a format easily digested by students engineering professionals and those concerned with related environmental issues The useful reference text includes worked examples for each chapter and demonstrates process balances in the framework of M E concerns of the 21st century The additional problems and solutions in the Appendix embrace a wide range of subjects from fossil fuels to fuel cells solar energy space stations carbon dioxide capture and sodium ion batteries *Guidelines for Safe and Reliable Instrumented Protective Systems* CCPS (Center for Chemical Process Safety),2011-11-16 This book explains the decision making processes for the management of instrumented protective systems IPS throughout a project s life cycle It uses the new IEC 61511 standard as a basis for the work processes used to achieve safe and reliable process operation By walking the reader through a project s life cycle engineering maintenance and operations the information allows users to easily focus on their responsibilities and duties Using this approach the book is useful as a primer guidelines reference and resource manual Examples provide the added real world experience applications

Information Sources in Engineering Ken W. Mildren,Peter J. Hicks,1996 This guide presents an updated evaluation of sources from reports journals to bibliographies reviews for engineering information Topics covered include energy technology nuclear power engineering fluid mechanics fluid power systems design ergonomics biomedical engineering more

Principles of Chemical Engineering Processes - Solutions Manual Nayef Ghasem,Redhouane Henda,2008-09-26 *List* ,1948 *Subject Guide to Books in Print* ,1975 *Wastewater Technology Buyers' Guide* ,1995 *Chemical Engineering Catalog* ,1925 **Scientific and Technical Aerospace Reports** ,1982-05 **Energy Research Abstracts** ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored

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