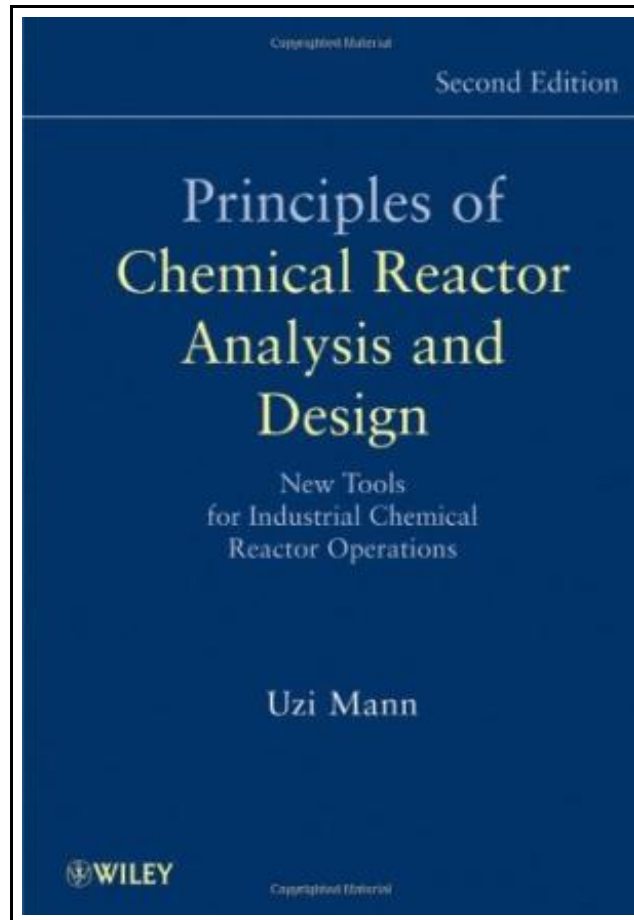


Principles of Chemical Reactor Analysis and Design: New Tools for Industrial Chemical Reactor Operations



Filesize: 8.35 MB

Reviews

I actually started reading this article ebook. It is actually packed with knowledge and wisdom Its been printed in an remarkably simple way and it is only after i finished reading this pdf where in fact modified me, alter the way i believe.

(Prof. Uriel Witting)

PRINCIPLES OF CHEMICAL REACTOR ANALYSIS AND DESIGN: NEW TOOLS FOR INDUSTRIAL CHEMICAL REACTOR OPERATIONS

DOWNLOAD



To read **Principles of Chemical Reactor Analysis and Design: New Tools for Industrial Chemical Reactor Operations** eBook, you should refer to the button listed below and save the document or get access to other information that are relevant to PRINCIPLES OF CHEMICAL REACTOR ANALYSIS AND DESIGN: NEW TOOLS FOR INDUSTRIAL CHEMICAL REACTOR OPERATIONS ebook.

Wiley-Interscience, 2009. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface. Notation. Chapter 1: Overview of Chemical Reaction Engineering. 1.1 Classification of Chemical Reactions. 1.2 Classification of Chemical Reactors. 1.3 Phenomena and Concepts. 1.4 Common Practices. 1.5 Industrial Reactors. 1.6 Summary. Bibliography. Chapter 2: Stoichiometry. 2.1 The Four Contexts of "Chemical Reactions". 2.2 Chemical Formula and Stoichiometric Relations. 2.3 Reaction Extent. 2.4 Independent and Dependent Chemical Reactions. 2.5 Characterization of Reactor Feed. 2.6 Characterization of Reactor Performance. 2.7 Dimensionless Extents. 2.8 Independent Species Specifications. 2.9 Summary. Bibliography. Problems. Chapter 3: Chemical Kinetics. 3.1 Species Formation Rates. 3.2 Rates of Chemical Reactions. 3.3 Rate Expressions of Reaction Rates. 3.4 Effects of Transport Limitations. 3.5 Characteristic Reaction Time. 3.6 Summary. Bibliography. Problems. Chapter 4: Species Balances and Design Equations. 4.1 Macroscopic Species Balances - General Species-based Design Equations. 4.2 Species-based Design Equations of Ideal Reactors. 4.3 Reaction-based Design Equations. 4.4 Dimensionless Design Equations. 4.5 Summary. Bibliography. Problems. Chapter 5: Energy Balances. 5.1 Review of Thermodynamic Relations. 5.2 Energy Balances. 5.3 Summary. Bibliography. Problems. Chapter 6: Ideal Batch Reactor. 6.1 Design Equations and Auxiliary Relations. 6.2 Isothermal Operations with Single Reactions. 6.3 Isothermal Operations with Multiple Reactions. 6.4 Non-Isothermal Operations. 6.5 Summary. Problems. Chapter 7: Plug Flow Reactor. 7.1 Design Equations and Auxiliary Relations. 7.2 Isothermal Operations with Single Reactions. 7.3 Isothermal Operations with Multiple Reactions. 7.4 Non-Isothermal Operations. 7.5 Effects of Pressure Drop. 7.6 Summary. Problems. Chapter 8: Continuous Stirred Tank Reactor (CSTR). 8.1 Design Equations and Auxiliary Relations. 8.2 Isothermal Operations with Single Reactions. 8.3 Isothermal Operations with Multiple Reactions. 8.4 Non-Isothermal Operations. 8.5 Summary. Problems. Chapter 9: Other Reactor Configurations. 9.1 Semi-Batch Reactors. 9.2 Plug-Flow Reactor with Distributed Feed. 9.3 Distillation Reactor. 9.4 Recycle Reactor. 9.5 Summary. Problems. Chapter 10: Economic-Based Optimization of Reactor Operations. 10.1 Economic Objective Functions. 10.2 Batch and Semi-Batch Reactors. 10.3 Flow Reactors. 10.4 Summary. Problems. Appendices. Appendix A: Summary of Key Relationships. Appendix B: Microscopic Species Balances - Continuity Equations. Appendix C: Summary of Numerical Methods. Index.



[Read Principles of Chemical Reactor Analysis and Design: New Tools for Industrial Chemical Reactor Operations Online](#)



[Download PDF Principles of Chemical Reactor Analysis and Design: New Tools for Industrial Chemical Reactor Operations](#)

Other Kindle Books



[PDF] Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)

Follow the web link under to get "Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)" document.

[Save PDF »](#)



[PDF] Maisy's Christmas Tree

Follow the web link under to get "Maisy's Christmas Tree" document.

[Save PDF »](#)



[PDF] The Web Collection Revealed, Premium Edition: Adobe Dreamweaver CS6, Flash CS6, and Photoshop CS6 (Stay Current with Adobe Creative Cloud)

Follow the web link under to get "The Web Collection Revealed, Premium Edition: Adobe Dreamweaver CS6, Flash CS6, and Photoshop CS6 (Stay Current with Adobe Creative Cloud)" document.

[Save PDF »](#)



[PDF] Star Flights Bedtime Spaceship: Journey Through Space While Drifting Off to Sleep

Follow the web link under to get "Star Flights Bedtime Spaceship: Journey Through Space While Drifting Off to Sleep" document.

[Save PDF »](#)



[PDF] Pilgrim: Book 8

Follow the web link under to get "Pilgrim: Book 8" document.

[Save PDF »](#)



[PDF] TJ new concept of the Preschool Quality Education Engineering: new happy learning young children (3-5 years old) daily learning book Intermediate (2)(Chinese Edition)

Follow the web link under to get "TJ new concept of the Preschool Quality Education Engineering: new happy learning young children (3-5 years old) daily learning book Intermediate (2)(Chinese Edition)" document.

[Save PDF »](#)