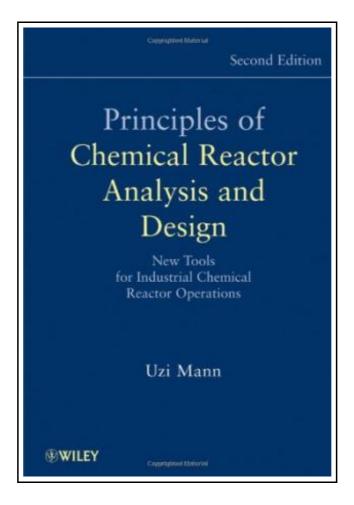
### Principles of Chemical Reactor Analysis and Design: New Tools for Industrial Chemical Reactor Operations



Filesize: 3.01 MB

### Reviews

This ebook is great. It typically will not expense a lot of. You will not sense monotony at at any moment of your own time (that's what catalogs are for about when you question me). (Shaniya Torphy PhD)

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



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 Stoichiometic 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** 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 Reactions.7.4 Non-Isothermal Operations.7.5 Effects of 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 Semi-Batch Functions.10.2 Batch and 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

### You May Also Like



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

HarperCollins, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Foreword by Raph Koster. Introduction. I. EXECUTIVE CONSIDERATIONS. 1. The Market. Do We Enter the Market? Basic Considerations. How...

Download ePub »



#### Maisy's Christmas Tree

Candlewick, 2014. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: The final scene of the gang caroling around the tree, complete with paper crowns from British Christmas crackers, is...

Download ePub »



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

Cengage Learning, 2012. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: You can now maximize and integrate the design and development power of Adobe Creative Suite 6 with WEB...

Download ePub »



### Star Flights Bedtime Spaceship: Journey Through Space While Drifting Off to Sleep

CreateSpace Independent Publishing Platform, 2013. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: "Star Flights Bedtime Spaceship" is a charming and fun story with the purpose to help children...

Download ePub »



#### Pilgrim: Book 8 (Paperback)

CHURCH HOUSE PUBLISHING, United Kingdom, 2015. Paperback. Book Condition: New. 206 x 144 mm. Language: English. Brand New Book. Pilgrim is a teaching and discipleship resource from the Church of England that helps enquirers...

Download ePub »



### Read Write Inc. Phonics: Yellow Set 5 Storybook 8 Danny and the Bump-a-Lump (Paperback)

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 174 x 148 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read

Download ePub »



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

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the

Download ePub »



### Read Write Inc. Phonics: Blue Set 6 Storybook 4 King of the Birds (Paperback)

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 208 x 148 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read

Download ePub »



#### Read Write Inc. Phonics: Blue Set 6 Storybook 5 Our House (Paperback)

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 208 x 99 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read

Download ePub »



#### Read Write Inc. Phonics: Orange Set 4 Storybook 6 a Good Cook? (Paperback)

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 210 x 148 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read

Download ePub »