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Introduction to Chemical Processes: Principles, Analysis, Synthesis

By Regina M. Murphy

McGraw-Hill Education, 2013. Softcover. Book Condition: New. First edition. Introduction to Chemical Processes: Principles, Analysis, Synthesis enhances student understanding of the connection between the chemistry and the process. Users will find strong coverage of chemistry, gain a solid understanding of what chemical processes do (convert raw materials into useful products using energy and other resources), and learn about the ways in which chemical engineers make decisions and balance constraints to come up with new processes and products. The author presents material and energy balances as tools to achieve a real goal: workable, economical, and safe chemical processes and products. Loaded with intriguing pedagogy, this text is essential to a student's first course in Chemical Engineering. Additional resources intended to guide users are also available as package options, such as ChemSkill Builder. Contents: 1 Converting the Earth's Resources into Useful Products 2 Process Flows: Variables, Diagrams, Balances 3 Mathematical Analysis of Material Balance Equations and Process Flow Sheets 4 Synthesis of Reactor Flow Sheets and Selection of Reactor Process Conditions 5 Selection of Separation Technologies and Synthesis of Separation Flow Sheets 6 Process Energy Calculations and Synthesis of Safe and Efficient Energy Flow Sheets Appendix A: Mathematical Methods Appendix B: Physical...



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