1. Record Nr. UNINA9910797065303321 Autore Worstell Jonathan Titolo Batch and semi-batch reactors: practical guides in chemical engineering / / Jonathan Worstell Amsterdam, [Netherlands]: ,: Butterworth-Heinemann, , 2015 Pubbl/distr/stampa ©2015 **ISBN** 0-12-801465-2 Descrizione fisica 1 online resource (109 p.) Collana IChemE practical guides in chemical engineering Batch and semi-batch reactors Disciplina 660.283 Chemical reactors Soggetti Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references at the end of each chapters. Nota di contenuto Front Cover; Batch and Semi-batch Reactors; Copyright Page; Dedication: Contents: 1 Introduction: Chemical Reactions and Processes; Batch and Semi-Batch Reactors; Design of Batch and Semi-Batch Reactors; Summary; References; 2 Batch Reactors; Quantitative Description of Batch Reactors; What Is RA?; Elucidation of Kinetic Relationships; Summary; References; 3 Scaling Batch Reactors; Scaling Concentration, Temperature, Volume, Agitation; Scaling Heat Transfer; Summary: References: 4 Semi-Batch Reactors: Reactor Choice: Batch or Semi-Batch Reactor; Miscible Liquid-Liquid Semi-Batch Processes Kinetic AnalysisThermal Analysis; Immiscible Liquid-liquid Semi-Batch Processes: Kinetic Analysis: Thermal Analysis: Gas-Liquid Semi-Batch Processes; Kinetic Analysis; Thermal Analysis; Summary; References; 5 Batch and Semi-Batch Operations; Process Cycle Time; Process Operating Temperature; Summary; References Batch and Semi-batch Reactors: Practical Guides in Chemical Sommario/riassunto Engineering is a cluster of short texts that provide a focused introductory view on a single subject. The full library presents a basic understanding of the main topics in the chemical process industries, allowing engineering professionals to guickly access information. Each 'pocket publication' can be easily carried or accessed electronically, giving users a highly practical and applied presentation

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