

1. Record Nr.	UNINA9910817470803321
Autore	Ancheyta Jorge
Titolo	Modeling and simulation of catalytic reactors for petroleum refining // Jorge Ancheyta
Pubbl/distr/stampa	Hoboken, NJ, : Wiley, c2011
ISBN	1-118-00216-4 1-283-05233-4 9786613052339 0-470-93356-9 0-470-93355-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (525 p.)
Disciplina	665.5/3
Soggetti	Catalytic reforming - Simulation methods Petroleum - Refining
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
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Continuous Mixtures; 2.3.3 Structure-Oriented Lumping and Single-Event Models
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5.2.1 Transport Phenomena, Thermodynamic Aspects, and Reaction Patterns

Sommario/riassunto

Modeling and Simulation of Catalytic Reactors for Petroleum Refining deals with fundamental descriptions of the main conversion processes employed in the petroleum refining industry: catalytic hydrotreating, catalytic reforming, and fluid catalytic cracking. Common approaches for modeling of catalytic reactors for steady-state and dynamic simulations are also described and analyzed. Aspects such as thermodynamics, reaction kinetics, process variables, process scheme, and reactor design are discussed in detail from both research and commercial points of view. Results of simulation with t
