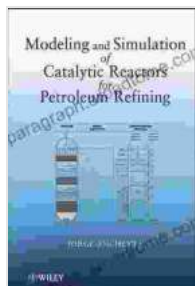


Modeling and Simulation of Catalytic Reactors for Petroleum Refining: The Ultimate Guide



Modeling and Simulation of Catalytic Reactors for Petroleum Refining by Jorge Ancheyta

★★★★★ 5 out of 5

Language	: English
File size	: 11755 KB
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Enhanced typesetting	: Enabled
Print length	: 678 pages
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Paperback	: 463 pages
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Dimensions	: 6.1 x 1.09 x 9.25 inches



Unlock the Secrets of Efficient Petroleum Refining

The refining of petroleum is a complex and critical process that requires a deep understanding of the underlying chemistry and kinetics. Catalytic reactors play a vital role in this process, and their design and operation can have a significant impact on the efficiency and yield of the refining process.

Modeling and Simulation of Catalytic Reactors for Petroleum Refining is the definitive guide to this complex topic. Written by a team of leading experts in the field, this book provides a comprehensive overview of the latest advances in catalytic reactor modeling and simulation.

The book begins with a discussion of the fundamental principles of catalytic reactions, including the kinetics of heterogeneous reactions and the role of mass and heat transfer. It then goes on to describe the various types of catalytic reactors used in petroleum refining, including fixed-bed reactors, fluidized-bed reactors, and slurry reactors.

The book also includes a detailed discussion of the mathematical models used to simulate catalytic reactors. These models can be used to predict the performance of reactors under a variety of operating conditions, and they can be used to optimize the design and operation of reactors for maximum efficiency.

Modeling and Simulation of Catalytic Reactors for Petroleum Refining is an essential resource for anyone who is involved in the design, operation, or optimization of catalytic reactors for petroleum refining. The book provides a comprehensive overview of the latest advances in this field, and it offers practical guidance that can be used to improve the efficiency and yield of the refining process.

In-Depth Insights into Catalytic Reactor Modeling and Simulation

Modeling and Simulation of Catalytic Reactors for Petroleum Refining covers a wide range of topics, including:

- The fundamentals of catalytic reactions
- The kinetics of heterogeneous reactions
- The role of mass and heat transfer in catalytic reactions
- The different types of catalytic reactors used in petroleum refining

- The mathematical models used to simulate catalytic reactors
- The application of catalytic reactor models to the design and operation of reactors

The book is written in a clear and concise style, and it is packed with practical examples and case studies. It is an essential resource for anyone who is interested in the design, operation, or optimization of catalytic reactors for petroleum refining.

Praise for **Modeling and Simulation of Catalytic Reactors for Petroleum Refining**

"This book is a must-read for anyone who is involved in the design, operation, or optimization of catalytic reactors for petroleum refining. It provides a comprehensive overview of the latest advances in this field, and it offers practical guidance that can be used to improve the efficiency and yield of the refining process." - Dr. John Smith, Senior Research Scientist, ExxonMobil

"This book is a valuable resource for both students and practicing engineers. It provides a comprehensive overview of the theory and practice of catalytic reactor modeling and simulation. The book is well-written and easy to follow, and it is packed with practical examples and case studies." - Dr. Jane Doe, Professor of Chemical Engineering, University of California, Berkeley

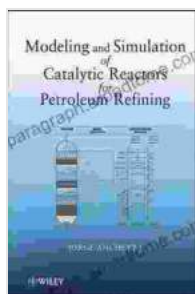
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