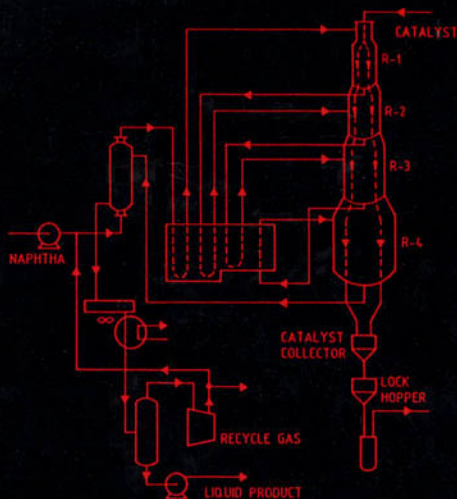


CATALYTIC NAPHTHA REFORMING

Science and Technology



edited by
George J. Antos
Abdullah M. Aitani
José M. Parera

CATALYTIC NAPHTHA REFORMING

CHEMICAL INDUSTRIES

A Series of Reference Books and Textbooks

Consulting Editor

HEINZ HEINEMANN

Berkeley, California

1. *Fluid Catalytic Cracking with Zeolite Catalysts*, Paul B. Venuto and E. Thomas Habib, Jr.
2. *Ethylene: Keystone to the Petrochemical Industry*, Ludwig Kniel, Olaf Winter, and Karl Stork
3. *The Chemistry and Technology of Petroleum*, James G. Speight
4. *The Desulfurization of Heavy Oils and Residua*, James G. Speight
5. *Catalysis of Organic Reactions*, edited by William R. Moser
6. *Acetylene-Based Chemicals from Coal and Other Natural Resources*, Robert J. Tedeschi
7. *Chemically Resistant Masonry*, Walter Lee Sheppard, Jr.
8. *Compressors and Expanders: Selection and Application for the Process Industry*, Heinz P. Bloch, Joseph A. Cameron, Frank M. Danowski, Jr., Ralph James, Jr., Judson S. Swearingen, and Marilyn E. Weightman
9. *Metering Pumps: Selection and Application*, James P. Poynton
10. *Hydrocarbons from Methanol*, Clarence D. Chang
11. *Form Flotation: Theory and Applications*, Ann N. Clarke and David J. Wilson
12. *The Chemistry and Technology of Coal*, James G. Speight
13. *Pneumatic and Hydraulic Conveying of Solids*, O. A. Williams
14. *Catalyst Manufacture: Laboratory and Commercial Preparations*, Alvin B. Stiles
15. *Characterization of Heterogeneous Catalysts*, edited by Francis Delannay
16. *BASIC Programs for Chemical Engineering Design*, James H. Weber
17. *Catalyst Poisoning*, L. Louis Hegedus and Robert W. McCabe
18. *Catalysis of Organic Reactions*, edited by John R. Kosak
19. *Adsorption Technology: A Step-by-Step Approach to Process Evaluation and Application*, edited by Frank L. Slejko
20. *Deactivation and Poisoning of Catalysts*, edited by Jacques Oudar and Henry Wise

21. *Catalysis and Surface Science: Developments in Chemicals from Methanol, Hydrotreating of Hydrocarbons, Catalyst Preparation, Monomers and Polymers, Photocatalysis and Photovoltaics*, edited by Heinz Heinemann and Gabor A. Somorjai
22. *Catalysis of Organic Reactions*, edited by Robert L. Augustine
23. *Modern Control Techniques for the Processing Industries*, T. H. Tsai, J. W. Lane, and C. S. Lin
24. *Temperature-Programmed Reduction for Solid Materials Characterization*, Alan Jones and Brian McNichol
25. *Catalytic Cracking: Catalysts, Chemistry, and Kinetics*, Bohdan W. Wojciechowski and Avelino Corma
26. *Chemical Reaction and Reactor Engineering*, edited by J. J. Carberry and A. Varma
27. *Filtration: Principles and Practices: Second Edition*, edited by Michael J. Matteson and Clyde Orr
28. *Corrosion Mechanisms*, edited by Florian Mansfeld
29. *Catalysis and Surface Properties of Liquid Metals and Alloys*, Yoshisada Ogino
30. *Catalyst Deactivation*, edited by Eugene E. Petersen and Alexis T. Bell
31. *Hydrogen Effects in Catalysis: Fundamentals and Practical Applications*, edited by Zoltán Paál and P. G. Menon
32. *Flow Management for Engineers and Scientists*, Nicholas P. Cheremisinoff and Paul N. Cheremisinoff
33. *Catalysis of Organic Reactions*, edited by Paul N. Rylander, Harold Greenfield, and Robert L. Augustine
34. *Powder and Bulk Solids Handling Processes: Instrumentation and Control*, Koichi Inoya, Hiroaki Masuda, and Kinnosuke Watanabe
35. *Reverse Osmosis Technology: Applications for High-Purity-Water Production*, edited by Bipin S. Parekh
36. *Shape Selective Catalysis in Industrial Applications*, N. Y. Chen, William E. Garwood, and Frank G. Dwyer
37. *Alpha Olefins Applications Handbook*, edited by George R. Lappin and Joseph L. Sauer
38. *Process Modeling and Control in Chemical Industries*, edited by Kaddour Najim
39. *Clathrate Hydrates of Natural Gases*, E. Dendy Sloan, Jr.
40. *Catalysis of Organic Reactions*, edited by Dale W. Blackburn
41. *Fuel Science and Technology Handbook*, edited by James G. Speight
42. *Octane-Enhancing Zeolitic FCC Catalysts*, Julius Scherzer
43. *Oxygen in Catalysis*, Adam Bielański and Jerzy Haber
44. *The Chemistry and Technology of Petroleum: Second Edition, Revised and Expanded*, James G. Speight

45. *Industrial Drying Equipment: Selection and Application*, C. M. van't Land
46. *Novel Production Methods for Ethylene, Light Hydrocarbons, and Aromatics*, edited by Lyle F. Albright, Billy L. Crynes, and Siegfried Nowak
47. *Catalysis of Organic Reactions*, edited by William E. Pascoe
48. *Synthetic Lubricants and High-Performance Functional Fluids*, edited by Ronald L. Shubkin
49. *Acetic Acid and Its Derivatives*, edited by Victor H. Agreda and Joseph R. Zoeller
50. *Properties and Applications of Perovskite-Type Oxides*, edited by L. G. Tejuca and J. L. G. Fierro
51. *Computer-Aided Design of Catalysts*, edited by E. Robert Becker and Carmo J. Pereira
52. *Models for Thermodynamic and Phase Equilibria Calculations*, edited by Stanley I. Sandler
53. *Catalysis of Organic Reactions*, edited by John R. Kosak and Thomas A. Johnson
54. *Composition and Analysis of Heavy Petroleum Fractions*, Klaus H. Altgelt and Mieczyslaw M. Boduszynski
55. *NMR Techniques in Catalysis*, edited by Alexis T. Bell and Alexander Pines
56. *Upgrading Petroleum Residues and Heavy Oils*, Murray R. Gray
57. *Methanol Production and Use*, edited by Wu-Hsun Cheng and Harold H. Kung
58. *Catalytic Hydroprocessing of Petroleum and Distillates*, edited by Michael C. Oballah and Stuart S. Shih
59. *The Chemistry and Technology of Coal: Second Edition, Revised and Expanded*, James G. Speight
60. *Lubricant Base Oil and Wax Processing*, Avilino Sequeira, Jr.
61. *Catalytic Naphtha Reforming: Science and Technology*, edited by George J. Antos, Abdullah M. Aitani, and José M. Parera
62. *Catalysis of Organic Reactions*, edited by Michael Scaros

ADDITIONAL VOLUMES IN PREPARATION