

Modeling Of Processes And Reactors For Upgrading Of Heavy Petroleum Chemical Industries

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Batch Reactor Overview ~~Mathematical Modeling: Material Balances Mod-01 Lec-34 Modeling non-ideal reactors Modeling Cycles: MA, AR, and ARMA Models (FRM Part 1 - Book 2 - Chapter 13) Modeling Of Processes And Reactors~~

Modeling of Processes and Reactors for Upgrading of Heavy Petroleum gives an up-to-date treatment of modeling of reactors employed in the main processes for heavy petroleum upgrading. The book includes fundamental aspects such as thermodynamics, reaction kinetics, chemistry, and process variables .

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Processes and Reactor Modeling for Chain Polymerization: 4.1. Introduction to Polymerization Techniques: 4.2. Fundamentals of Material Balance Equations: 4.3. Effect of Reactor Types on Copolymer Composition Distribution: 4.4. Effect of Reactor Types on Nonlinear Polymer Formation: 5. Bulk and Solution Polymerization: 5.1. Removal of Solvent and Residual Monomer: 5.2.

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Therefore, a computationally efficient model based on zero-dimensional stochastic reactors and reduced chemistry schemes, consisting of 83 gas-phase species and 18 species for surface reactions, is developed. Each reactor is enabled to account for the three phases: the solid phase, pore gas surrounding the solid, and the bulk gas.

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