Modeling of chemical kinetics and reactor design

Gulf Professional Pub. - Kinetic Modelling > Institute of Chemical Reaction Engineering

Description: -
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Computer security -- Management.
Business -- Data processing -- Security measures.
Electronic data processing departments -- Security measures.
Chemical reactors -- Mathematical models.
Chemical processes -- Mathematical models.Modeling of chemical kinetics and reactor design
-Modeling of chemical kinetics and reactor design
Notes: Includes bibliographical references and index.
This edition was published in 2001

Tags: #modeling #of #chemical #kinetics #and #reactor #design #by #a. #kayode #coker

PE6013

Catalyst preparation and characterization: Catalysis - Nature of catalyses, methods of evaluation of catalysis, factors affecting the choice of catalysts, promoters, inhibitors, and supports, catalyst specifications, preparation and characterization of catalysts, surface area measurement by BET method, pore size distribution, catalyst, poison, mechanism and kinetics of catalyst, deactivation. Modeling ofChemical KineticsandReactor DesignModeling ofChemical KineticsandReactor DesignA.

Modeling of Chemical Kinetics and Reactor Design

Generally reactor design is based on balance equations, which contain thermodynamic and kinetic models. Physical absorption with chemical reaction, simultaneous absorption of two reacting cases consecutive reversible reactions between gas and liquid, irreversible reactions, estimation of effective interfacial area in absorption equipment.

Modeling of Chemical Kinetics and Reactor Design

He has directed and conducted short courses in both the UK and for SABIC industries in Saudi Arabia. Ed Steve for his comments and suggestions on scale-upof reactors, and Mr. In order to identify the most suitable and reliable kinetic approach for each reaction step, the fitting results are evaluated by means of statistical analysis confidence intervals, correlation coefficients, residuals, etc.

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In gratitude to the Almighty father, the Omnipotence, Omniscience,and Omnipresence. First of all, the development of a kinetic model requires measurements in an ideal laboratory scale reactor. Printed in the United States of America.

modeling of chemical kinetics and reactor design by a. kayode coker

A kinetic model constitutes the mathematical description of the course of the reaction for each reaction step as a function of components in the system.

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UNIT III 9 Physical adsorption and chemical adsorption: Fluid-fluid reactions different regimes, identification reaction regime, application to design. Selecting the best type of reactor for any particular chemical reaction, taking into consideration safety, hazard analysis, scale-up, and many other factors is essential to any industrial problem.

Modeling of Chemical Kinetics and Reactor Design

Coker was named as one of the International Biographical Centre's Leading Engineers of the World 2008.

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