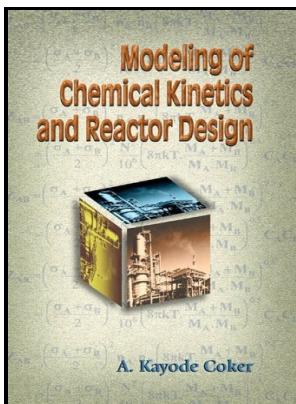


Modeling of chemical kinetics and reactor design

Gulf Professional Pub. - PE6013



Description: -

- 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



Filesize: 36.74 MB

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

UNIT III 9 Physical adsorption and chemical adsorption: Fluid-fluid reactions different regimes, identification reaction regime, application to design. Shows readers how to select the best reactor design, hazard analysis, and safety in design methodology Features computer programs developed to solve modeling problems using numerical methods A.

Modeling of Chemical Kinetics and Reactor Design

I would also like to thank Mr. Coker was named as one of the International Biographical Centre's Leading Engineers of the World 2008.

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In addition to covering fluid mixing, the treatment of wastewater, and chemical reactor modeling, the author includes sections on safety in chemical reaction and scale-up, two topics that are often neglected or overlooked.

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Kinetic Modelling > Institute of Chemical Reaction Engineering

Students, chemists, technologists, and chemical engineers will all benefit from this comprehensive volume. Generally reactor design is based on balance equations, which contain thermodynamic and kinetic models. Mixing and Chemical Reaction in Stirred Tanks 794 References and Recommended Reading 810 Nomenclature 810 Improve Reactors Via Computational Fluid Dynamics 811 References 828 CHAPTER ELEVEN Biochemical Reaction 830 Introduction 830 Kinetics of Enzyme-Catalyzed Reactions 831 Models of Enzyme Kinetics 834 Enzyme Kinetics in the Presence of an Inhibitor 851 Fermentation 853 Design of Biological Reactors.

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First of all, the development of a kinetic model requires measurements in an ideal laboratory scale reactor.

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