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Unsteady Progress in Catalytic Reactors (Studies in Surface Science and Catalysis)

Matros, Y.S.

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Unsteady Processes In Catalytic R

**Kerry L. Sublette, Thomas M.
Harris, Francis S. Manning**



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Cyclic Separating Reactors Takashi Aida, Peter L. Silveston, 2008-04-15 Cyclic Separating Reactors is a critical examination of the literature covering periodically operated separating reactors incorporating an adsorbent as well as a catalyst aiming to establish the magnitude of performance improvement available with this type of reactor compared to systems in which the reactor and separator are separate units The adequacy of present models is considered by comparison of simulation and experimental studies and gaps in understanding or experimental verification of model predictions are identified Separating reactors including chromatographic reactors and pressure swing reactors are an expeditious means of process intensification reducing both capital and operating costs particularly where reactions are equilibrium limited For this reason cyclically operating separating reactors are attracting considerable interest across the range of chemical manufacturing industries so this book is a timely and valuable summary of the literature available to the engineer Following an introduction to multifunctional reactors and to periodic reactor operation Cyclic Separating Reactors covers both chromatographic and pressure swing adsorption reactors and is written for chemical engineers in both industry and academe First book to critically examine the literature surrounding Cyclically Operating Separating Reactors providing a straightforward entry to and detailed appraisal of the literature so the reader does not have to engage in an expensive and time consuming literature review Evaluates current models and understanding to give the engineer clear information on what performance can be expected of these reactors and where current information needs to be augmented when designing systems for commercial operation Periodic Operation of Chemical Reactors P. L. Silveston, R. R. Hudgins, 2012-12-04 This comprehensive review prepared by 24 experts many of whom are pioneers of the subject brings together in one place over 40 years of research in this unique publication This book will assist R provides a rich source of experimental data plus process models Accompanying website with modelling data Advanced Control of Chemical Processes 1994 D. Bonvin, 2014-05-23 This publication brings together the latest research findings in the key area of chemical process control including dynamic modelling and simulation modelling and model validation for application in linear and nonlinear model based control nonlinear model based predictive control and optimization to facilitate constrained real time optimization of chemical processes statistical control techniques major developments in the statistical interpretation of measured data to guide future research knowledge based v model based control the integration of theoretical aspects of control and optimization theory with more recent developments in artificial intelligence and computer science *Catalytic Processes Under Unsteady-State Conditions* Y.S. Matros, 1988-12-01 This book deals with catalytic processes under forced non steady state conditions It demonstrates both theoretically and practically that forced non steady state processes are highly efficient compared with steady state processes and illustrates this with a wealth of practical examples The first part of the book describes the theoretical and experimental basis of efficient processes mathematical models of non steady state processes in reactors

influence of a non steady state catalyst surface problems of optimization the theory of a heat front in the fixed catalyst bed and methods to create efficient cyclic regimes The second part considers the following processes sulphur dioxide oxidation in sulphuric acid production cleaning of effluent gases from toxic impurities production of high potency heat ammonia and methanol synthesis etc The book will appeal to many readers chemical engineers especially in the field of mathematical modelling of reactors with a fixed catalyst bed personnel of chemical plants and machine manufacturing companies dealing with maintenance and installation of catalytic reactors specialists in detoxification of the effluents from organic admixtures and carbon monoxide students of technical colleges and universities *Advanced Control of Chemical Processes*, 1991

Physics of Fluids in Microgravity Rodolfo Monti, 2002-01-10 In a microgravity experiment the conditions prevalent in fluid phases can be substantially different from those on the ground and can be exploited to improve different processes Fluid physics research in microgravity is important for the advancement of all microgravity sciences life material and engineering Space flight provides a unique Russian Chemical Reviews, 2007 **Environmental Issues and Solutions in Petroleum**

Exploration, Production and Refining Kerry L. Sublette, Thomas M. Harris, Francis S. Manning, 1994 **Unsteady State Processes in Catalysis** Yu S. Matros, 1990-12 In the last decades the investigation methods of unsteady state catalytic processes have been widely developed by the response technique methods From this research emerged the realization that under unsteady state conditions and especially under artificially created ones it is possible to increase the productivity or selectivity of a catalyst or a catalytical process as a whole The scientific literature in this field is mostly theoretical and aims at structuring and analysing mathematical models of unsteady state catalytical processes In this book the theoretical and applied aspects of an efficiency of artificially created unsteady conditions in catalysis are discussed It contains the lectures from researchers from all over the world that were held during the International Conference Unsteady State Processes in Catalysis 5-8 June 1990 Novosibirsk USSR Topics include The problems of dynamics of a catalyst surface Kinetic models of unsteady processes Dynamics of chemical reactors Artificially created unsteady processes in a catalytic reactor

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