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Chemical Reactor Modeling

Multiphase Reactive Flows

Second Edition



Chemical Reactor Modeling Multiphase Reactive Flows

Sunil S Joshi, Vivek V. Ranade

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industrial catalysis The book begins by introducing the reader to the interesting challenging and important field of catalysis and catalytic processes The fundamentals of catalysis and catalytic processes are fully covered before delving into the important industrial applications of catalysis and catalytic processes with an emphasis on green and sustainable technologies Several case studies illustrate new and sustainable ways of designing catalysts and catalytic processes The intended audience of the book includes researchers in academia and industry as well as chemical engineers process development chemists and technologists working in chemical industries and industrial research laboratories Discusses the fundamentals of catalytic processes catalyst preparation and characterization and reaction engineering Outlines the homogeneous catalytic processes as they apply to specialty chemicals Introduces industrial catalysis and catalytic processes for fine chemicals Includes a number of case studies to demonstrate the various processes and methods for designing green catalysts 32nd European Symposium on Computer Aided Process Engineering Ludovic Montastruc, Stephane Negny, 2022-06-30 32nd European Symposium on Computer Aided Process Engineering ESCAPE 32 contains the papers presented at the 32nd European Symposium of Computer Aided Process Engineering ESCAPE event held in Toulouse France It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries who work in process development and design Presents findings and discussions from the 32nd European Symposium of Computer Aided Process Engineering ESCAPE event Multicomponent and Multiscale Systems Juergen Geiser, 2015-08-21 This book examines the latest research results from combined multi component and multi scale explorations It provides theory considers underlying numerical methods and presents brilliant computational experimentation Engineering computations featured in this monograph further offer particular interest to many researchers engineers and computational scientists working in frontier modeling and applications of multicomponent and multiscale problems Professor Geiser gives specific attention to the aspects of decomposing and splitting delicate structures and controlling decomposition and the rationale behind many important applications of multi component and multi scale analysis Multicomponent and Multiscale Systems Theory Methods and Applications in Engineering also considers the question of why iterative methods can be powerful and more appropriate for well balanced multiscale and multicomponent coupled nonlinear problems The book is ideal for engineers and scientists working in theoretical and applied areas Advances in Fluid Mechanics IX Matiur Rahman, C. A. Brebbia, 2012 This book discusses the basic formulations of fluid mechanics and their computer modelling as well as the relationship between experimental and analytical results Containing papers from the Ninth International Conference on Advances in Fluid Mechanics this book discusses the basic formulations of fluid mechanics and their computer modelling as well as the relationship between experimental and analytical results Scientists engineers and other professionals interested in the latest developments in theoretical and computational fluid mechanics will find the book a useful addition to the literature The book covers a wide range of topics with emphasis on new applications and

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