

CHAO YANG  
ZAI-SHA MAO

# NUMERICAL SIMULATION OF MULTIPHASE REACTORS WITH CONTINUOUS LIQUID



# Numerical Simulation Of Multiphase Reactors With Continuous Liquid

**F Rizvi**

## **Numerical Simulation Of Multiphase Reactors With Continuous Liquid:**

*Numerical Simulation of Multiphase Reactors with Continuous Liquid Phase* Chao Yang,Zai-Sha Mao,2014-09-04

Numerical simulation of multiphase reactors with continuous liquid phase provides current research and findings in multiphase problems which will assist researchers and engineers to advance this field. This is an ideal reference book for readers who are interested in design and scale up of multiphase reactors and crystallizers and using mathematical model and numerical simulation as tools. Yang and Mao's book focuses on modeling and numerical applications directly in the chemical petrochemical and hydrometallurgical industries rather than theories of multiphase flow. The content will help you to solve reacting flow problems and/or system design optimization problems. The fundamentals and principles of flow and mass transfer in multiphase reactors with continuous liquid phase are covered which will aid the reader's understanding of multiphase reaction engineering. Provides practical applications for using multiphase stirred tanks reactors and microreactors with detailed explanation of investigation methods. Presents the most recent research efforts in this highly active field on multiphase reactors and crystallizers. Covers mathematical models, numerical methods and experimental techniques for multiphase flow and mass transfer in reactors and crystallizers.

*Mechanical Design and Manufacturing of Electric Motors* Wei Tong,2022-05-19

This Second Edition of Mechanical Design and Manufacturing of Electric Motors provides in-depth knowledge of design methods and developments of electric motors in the context of rapid increases in energy consumption and emphasis on environmental protection alongside new technology in 3D printing, robots, nanotechnology and digital techniques and the challenges these pose to the motor industry. From motor classification and design of motor components to model setup and material and bearing selections this comprehensive text covers the fundamentals of practical design and design related issues, modeling and simulation, engineering analysis, manufacturing processes, testing procedures and performance characteristics of electric motors today. This Second Edition adds three brand new chapters on motor breaks, motor sensors and power transmission and gearing systems. Using a practical approach with a focus on innovative design and applications the book contains a thorough discussion of major components and subsystems such as rotors, shafts, stators and frames alongside various cooling techniques including natural and forced air, direct and indirect liquid phase change and other newly emerged innovative cooling methods. It also analyzes the calculation of motor power losses, motor vibration and acoustic noise issues and presents engineering analysis methods and case study results. While suitable for motor engineers, designers, manufacturers and end users the book will also be of interest to maintenance personnel, undergraduate and graduate students and academic researchers.

**Numerical Methods for Multiphase Flows**

Ismail Celik,1990 [Numerical Simulation of a Simons Gas-liquid Electrochemical Flow Reactor](#) Javit Ahmed Drake,2000

**Advances of Computational Fluid Dynamics in Nuclear Reactor Design and Safety Assessment** Jyeshtharaj

Joshi, Arun K. Nayak,2019-06-11 [Advances of Computational Fluid Dynamics in Nuclear Reactor Design and Safety](#)

Assessment presents the latest computational fluid dynamic technologies It includes an evaluation of safety systems for reactors using CFD and their design the modeling of Severe Accident Phenomena Using CFD Model Development for Two phase Flows and Applications for Sodium and Molten Salt Reactor Designs Editors Joshi and Nayak have an invaluable wealth of experience that enables them to comment on the development of CFD models the technologies currently in practice and the future of CFD in nuclear reactors Readers will find a thematic discussion on each aspect of CFD applications for the design and safety assessment of Gen II to Gen IV reactor concepts that will help them develop cost reduction strategies for nuclear power plants

**Recent Trends in Fluid Dynamics Research** Ram P. Bharti,Krunal M. Gangawane,2022-01-04

This book presents select proceedings of Conference on Recent Trends in Fluid Dynamics Research RTFDR 21 It signifies the current research trends in fluid dynamics and convection heat transfer for both laminar and turbulent flow structures The topics covered include fluid mechanics and applications microfluidics and nanofluidics numerical methods for multiphase flows cavitation combustion fluid particle interactions in turbulence biological flows CFD experimental fluid mechanics convection heat transfer numerical heat transfer fluid power experimental heat transfer heat transfer non newtonian rheology and boundary layer theory The book also discusses various fundamental and application based research of fluid dynamics heat transfer combustion etc by theoretical and experimental approaches The book will be a valuable reference for beginners researchers and professionals interested in fluid dynamics research and allied fields

**Computational**

**Techniques for Multiphase Flows** Guan Heng Yeoh,Jiyuan Tu,2010 In an industrial context mixed or multiphase flows of e g solid liquid or solid gas are commonly found but their behaviour is complex and difficult to predict in many cases The use of Computational Fluid Dynamics CFD has emerged as a powerful tool for the understanding of fluid mechanics in multiphase reactors which are widely used in the chemical petroleum mining food beverage and pharmaceutical industries The use of CFD is increasing in many industries and bringing economies and benefits in its wake Thus the potential user of CFD needs a book which explains how to use the techni

*The Engineering Index Annual* ,1994 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly *Proceedings of the ASME Fluids Engineering Division Summer Meeting* American Society of Mechanical Engineers. Fluids Engineering Division. Summer Meeting,1996

*Multiphase Flow* 1995 Akimi Serizawa,Tohru Fukano,Jean Bataille,1995 There is increasing world wide interest in obtaining an understanding of various multiphase flow phenomena and problems in terms of a common language of

multiphase flow This volume contains state of the art papers which have been contributed from all over the world by experts working on all aspects of multiphase flows The volume also highlights international technology sharing in the fields of energy environment and public health in order to create a brighter and sustainable future for man and for all life in the next century It is intended that this volume will serve as a major source of literature for the advancement of multiphase flow and allied fields

**Previews of Heat and Mass Transfer** ,1995      *Oil & Gas Science and Technology* ,2000      **Encyclopedia of**

**Chemical Processing (Online)** Sunggyu Lee,2005-11-01 This second edition Encyclopedia supplies nearly 350 gold standard articles on the methods practices products and standards influencing the chemical industries It offers expertly written articles on technologies at the forefront of the field to maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques This collecting of information is of vital interest to chemical polymer electrical mechanical and civil engineers as well as chemists and chemical researchers A complete reconceptualization of the classic reference series the Encyclopedia of Chemical Processing and Design whose first volume published in 1976 this resource offers extensive A Z treatment of the subject in five simultaneously published volumes with comprehensive indexing of all five volumes in the back matter of each tome It includes material on the design of key unit operations involved with chemical processes the design unit operation and integration of reactors and separation systems process system peripherals such as pumps valves and controllers analytical techniques and equipment and pilot plant design and scale up criteria This reference contains well researched sections on automation equipment design and simulation reliability and maintenance separations technologies and energy and environmental issues Authoritative contributions cover chemical processing equipment engineered systems and laboratory apparatus currently utilized in the field It also presents expert overviews on key engineering science topics in property predictions measurements and analysis novel materials and devices and emerging chemical fields ALSO AVAILABLE ONLINE This Taylor E mail e reference taylorandfrancis com

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*Proceedings* ,1997      **Petroleum Abstracts** ,1992      Transactions of JWRI. トヨタ. トヨタリサーチ,2010      **Peterson's**  
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