

# FAST LIQUID-PHASE PROCESSES IN TURBULENT FLOWS

R.S. Meeks, A.A. Shteyn, V.P. Zolotarev and G.E. Zolotarev

# Fast Liquidphase Procebes In Turbulent Flows

**Gennadiï Efremovich Zaikov, Vadim G.  
Zaikov**



### **Fast Liquidphase Procebes In Turbulent Flows:**

*Fast Liquid-Phase Processes in Turbulent Flows* Karl Minsker, Alexander Berlin, Vadim Zakharov, Gennady Zaikov, 2004-10-01 This book deals with the fundamental laws of passing of fast liquid phase chemical as well as heat and mass transfer processes in turbulent flows The fundamental laws of passing of fast liquid phase chemical and also heat and mass transfer processes in turbulent flows are considered in the book Development of a macrokinetics approach is generaliz

Fast Chemical Reactions in Turbulent Flows Rustam Ya Deberdeev, 2013-09-02 This book describes the fundamentals of fast liquid phase chemical reactions and the principles of their scientific foundation technical implementation and industrial application of new technologies In addition the equipment required to perform these reactions in a turbulent mode in the chemical petrochemical and petroleum industries is also discussed The macrokinetic approach has been developed with consideration of the diffusion hydrodynamics and heat transfer processes Due to the advancement of fundamental knowledge equations of practical engineering importance have been obtained for the calculations of mass and heat transfer processes carried out in conditions of high turbulence and developed for the implementation in fast chemical reactions involving the synthesis of low molecular weight products and polymers New methods for controlling the molecular characteristics of polymers have been developed based on the tailored regulation of the hydrodynamics of the reactive mixture flow Typical processes have been used as model examples to reveal the influence of turbulence on the behaviour of fast chemical reactions used for the synthesis of low molecular weight products in single phase and two phase reactive systems Brand new tubular devices have been developed with the following characteristics compact size high productivity and a quasi perfect mixing operation mode in turbulent flows These devices are subdivided into cylindrical shell and tube zone and diffuser confusor designs Original solutions are proposed for the instrumental implementation of fast liquid phase processes and development of continuous energy and resource efficient technologies for the synthesis of some large scale compounds

*Preparation and Properties of Monomers, Polymers and Composite Materials* Antonio Ballada, Gennadiĭ Efremovich Zaikov, 2007 Preface Enhancement of miscibility in multi component solutions on the basis of three polymers and common solvents Reinforcement of the Interface in Drawn Polymer Blends PS PA 12 Quantum chemical calculation linear olefins and not conjugate diolefins Technology computers search of new more effective catalysts cationic polymerisation olefins Quantum chemical calculation and an estimation of acid force linear and ramified connected diens Magnetic rectal suppositories for medical application Investigation of their physical and chemical properties Studying of a magnetic resonance in contrasting agents on the basis of biodecomposed magnetic fluids Investigation of Micellisation at Non ionic Surfactants in their solutions Association of molecules and formation of micelles in solutions ionic surfactants The interaction of surfactants with Ion Polymeric Sorbents How the structure of sulphuryl amides influences the light stabilising properties Of complex aerohydrodynamic research and the effectiveness of arresting dispersed particles for barbotage rotation The mechanism of

selective oxidation of ethylbenzene with dioxygen into phenylethylhydroperoxide at catalysis by Fe III acac 3 activated with additives of 18 crown 6 as ligand modifier Enhanced photo and thermal oxidative stability of charge transfer complexes of conjugated polymers Preparation and investigation of physical and chemical properties of ionic magnetic fluids on the basis of cobalt ferrite Immunomagnetic separation of human hematopoietic cells Physical chemical bases and medical biologic investigation Emulsion polymerisation of meth acrylates Characteristics of kinetics and mechanism Behaviour of composite materials under micro organisms of soil New technologies for fast liquid phase chemical processes Index *Handbook of Polymer Research* Richard Arthur Pethrick, Antonio Ballada, Gennadii Efremovich Zaikov, 2007 Handbook of Polymer Research Monomers Oligomers Polymers Composites **European Symposium on Computer Aided Process Engineering - 11** R. Gani, S.B. Jørgensen, 2001-04-30 This book contains papers presented at the 11th Symposium of Computer Aided Process Engineering ESCAPE 11 held in Kolding Denmark from May 27 30 2001 The objective of ESCAPE 11 is to highlight the use of computers and information technology tools that is the traditional CAPE topics as well as the new CAPE topics of current and future interests The main theme for ESCAPE 11 is process and tools integration with emphasis on hybrid processing cleaner and efficient technologies process integration computer aided systems for modelling design synthesis control tools integration and industrial case studies application of integrated strategies The papers are arranged in terms of the following themes computer aided control operations computer aided manufacturing process and tools integration and new frontiers in CAPE A total of 188 papers consisting of 5 keynote and 183 contributed papers are included in this book **Computational Flow Modeling for Chemical Reactor Engineering** Vivek V. Ranade, 2002 The book relates the individual aspects of chemical reactor engineering and computational flow modeling in a coherent way to explain the potential of computational flow modeling for reactor engineering research and practice **Synthesis and Properties of Low- and High Molecular Compounds** Gennadii Efremovich Zaikov, Irina V. Savenkova, Klara Z. Gumargalieva, 2006 The main goal of this book is to describe the synthesis and properties of low and high molecular compounds on the quantitative level Special attention was given to composition materials based on polymers and dispersed wood the mechanism of HCL elimination reactions via a four centre transition state during PVC thermal destruction swelling of the filled polymer compositions structure and properties of combined systems based on butadiene nitrile and ternary ethylene propylene elastomers intensification mass transfer processes in fast liquid phase chemical reactions the examples of hetero nanophase kinetic description of photochemical reactions the nanometric particle like local structures and their implications in polymer behaviour fractal physical chemistry of polymer solutions modification of polycyanurates by polyethers polyesters and polyurethanes hybrid and interpenetrating polymer networks This collection includes articles devoted to production of polymers polymeric mixtures composite and filled polymers questions of expanding lifetime of polymeric articles biologically active substances modification of polymers and polymer analogous transformations fractal physical chemistry of polymer solutions the study of structural transformations in

polymers and some other questions Of special attention are also production of pure substances and protection of the environment , **Trends in Molecular and High Molecular Science** Gennadii Efremovich Zaikov,2005 Trends in Molecular High Molecular Science **New Developments in Physical Organic Chemistry** Gennadii Efremovich Zaikov,Vadim G. Zaikov,2006 New Developments in Physical Organic Chemistry **Process Intensification Technologies for Green Chemistry** Kamelia Boodhoo,Adam Harvey,2013-01-03 The successful implementation of greener chemical processes relies not only on the development of more efficient catalysts for synthetic chemistry but also and as importantly on the development of reactor and separation technologies which can deliver enhanced processing performance in a safe cost effective and energy efficient manner Process intensification has emerged as a promising field which can effectively tackle the challenges of significant process enhancement whilst also offering the potential to diminish the environmental impact presented by the chemical industry Following an introduction to process intensification and the principles of green chemistry this book presents a number of intensified technologies which have been researched and developed including case studies to illustrate their application to green chemical processes Topics covered include Intensified reactor technologies spinning disc reactors microreactors monolith reactors oscillatory flow reactors cavitation reactors Combined reactor separator systems membrane reactors reactive distillation reactive extraction reactive absorption Membrane separations for green chemistry Industry relevance of process intensification including economics and environmental impact opportunities for energy saving and practical considerations for industrial implementation Process Intensification for Green Chemistry is a valuable resource for practising engineers and chemists alike who are interested in applying intensified reactor and or separator systems in a range of industries to achieve green chemistry principles Multiphase Flows for Process Industries Vivek V. Ranade,Ranjeet P. Utikar,2022-03-30 Discover the cutting edge in multiphase flows used in the process industries In Multiphase Flows for Process Industries Fundamentals and Applications a team of accomplished chemical engineers delivers an insightful and complete treatment of the state of the art in commonly encountered multiphase flows in the process industries After discussing the theoretical background experimental methods and computational methods applicable to multiphase flows the authors explore specific examples from the process industries The book covers a wide range of multiphase flows including gas solid fluidized beds and flows with phase change It also provides direction on how to use current advances in the field to realize efficient and optimized processes Filling the gap between theory and practice this unique reference also includes A thorough introduction to multiphase flows and the process industry Practical discussions of flow regimes lower order models and correlations and the chronological development of mathematical models for multiphase flows Comprehensive explorations of experimental methods for characterizing multiphase flows including flow imaging and visualization In depth examinations of computational models for simulating multiphase flows Perfect for chemical and process engineers Multiphase Flows for Process Industries Fundamentals and Applications is required reading for graduate

and doctoral students in the engineering sciences as well as professionals in the chemical industry      *Transport Phenomena* Larry A. Glasgow, 2010-12-01 Enables readers to apply transport phenomena principles to solve advanced problems in all areas of engineering and science This book helps readers elevate their understanding of and their ability to apply transport phenomena by introducing a broad range of advanced topics as well as analytical and numerical solution techniques Readers gain the ability to solve complex problems generally not addressed in undergraduate level courses including nonlinear multidimensional transport and transient molecular and convective transport scenarios Avoiding rote memorization the author emphasizes a dual approach to learning in which physical understanding and problem solving capability are developed simultaneously Moreover the author builds both readers interest and knowledge by Demonstrating that transport phenomena are pervasive affecting every aspect of life Offering historical perspectives to enhance readers understanding of current theory and methods Providing numerous examples drawn from a broad range of fields in the physical and life sciences and engineering Contextualizing problems in scenarios so that their rationale and significance are clear This text generally avoids the use of commercial software for problem solutions helping readers cultivate a deeper understanding of how solutions are developed References throughout the text promote further study and encourage the student to contemplate additional topics in transport phenomena *Transport Phenomena* is written for advanced undergraduates and graduate students in chemical and mechanical engineering Upon mastering the principles and techniques presented in this text all readers will be better able to critically evaluate a broad range of physical phenomena processes and systems across many disciplines      **Advanced Composite Materials** ,2004      **Applied Process Design for Chemical and Petrochemical Plants: Volume 1** Ernest E. Ludwig, 1995-02-23 This expanded edition introduces new design methods and is packed with examples design charts tables and performance diagrams to add to the practical understanding of how selected equipment can be expected to perform in the process situation A major addition is the comprehensive chapter on process safety design considerations ranging from new devices and components to updated venting requirements for low pressure storage tanks to the latest NFPA methods for sizing rupture disks and bursting panels and more Completely revised and updated throughout The definitive guide for process engineers and designers Covers a complete range of basic day to day operation topics      Micro Instrumentation Melvin V. Koch, Kurt M. VandenBussche, Ray W. Chrisman, 2007-06-27 This first comprehensive treatment of the intertwined roles of micro instrumentation high throughput experimentation and process intensification as valuable tools for process analytical technology covers both industrial as well as academic aspects First class editors and authors from top companies and universities provide interdisciplinary coverage ranging from chemistry and analytics to process design and engineering supported throughout by case studies and ample analytical data      **Tip Streaming of Simple and Complex Fluids** José María Montanero, 2024-04-29 This book comprehensively describes the tip streaming in simple fluids and those containing surfactants and polymeric molecules It summarizes the theoretical

models and approximations commonly adopted to analyze this phenomenon. It provides relevant experimental results and presents the scaling laws for rationalizing those results. The stability of the flows leading to tip streaming is analyzed theoretically and experimentally. Attention is paid to the effects of surfactant monolayers and viscoelasticity including solutocapillarity, interfacial elasticity, surface viscosity and extensional thickening caused by the polymer coil stretch transition. It also offers an overall perspective of the numerous technological applications of the tip streaming phenomenon. Remarkable examples are the production of microemulsions and microencapsulation of active agents for the food and pharmacy industries, the atomization of charged liquids for analytical chemistry and the ejection of ultra fast and ultra thin jets for crystallography. Physical mechanisms responsible for the onset of tip streaming driven by hydrodynamic and electrohydrodynamic forces are described. Relevant theoretical and experimental results of the periodic microdripping and continuous microjetting modes of tip streaming produced with microfluidic configurations such as electrospray flow focusing, coflowing and selective withdrawal are discussed. The physical mechanisms responsible for the instability of the microjetting mode are studied in detail. The book collects the scaling laws used to predict the outcome of the microfluidic configurations mentioned above. The author combines state of the art experimental results and linear stability analysis to identify the instability mechanisms limiting the applicability of the above mentioned microfluidic configurations. In this way the book connects experimental observations with fundamental aspects of tip streaming, bridging the microfluidic and fluid dynamicist communities. The connection between results obtained from the theoretical and experimental approaches will help experimentalists to understand the fundamental aspects of their practical problems. A useful guide for researchers working on hydrodynamic focusing and electrospray.

**European Symposium on Computer Aided Process Engineering - 12** J. Grievink, J. van Schijndel, 2002-04-29. This book contains 182 papers presented at the 12th Symposium of Computer Aided Process Engineering ESCAPE 12 held in The Hague, The Netherlands, May 26-29, 2002. The objective of ESCAPE 12 is to highlight advances made in the development and use of computing methodologies and information technology in the area of Computer Aided Process Engineering and Process Systems Engineering. The Symposium addressed six themes: 1. Integrated Product, 2. Process Synthesis, 3. Process Dynamics, 4. Manufacturing, 5. Computational Technologies, 6. Sustainable CAPE. Education and Careers for Chemical Engineers. These themes cover the traditional core activities of CAPE and also some wider conceptual perspectives such as the increasing interplay between product and process design arising from the often complex internal structures of modern products, the integration of production chains creating the network structure of the process industry and optimization over life span dimensions taking sustainability as the ultimate driver.

Scientific and Technical Aerospace Reports, 1988. *Focus on Polymer Research* Gennadii Efremovich Zaikov, 2004. Polymer material science is the science of polymer materials, their creation, processing, preservation and control of their operation properties. Ageing and stabilisation of polymers as well as combustibility of polymeric materials are broad sections of polymer material science.

science This collection presents articles not only on polymers but also on some low molecular compounds and their reactivity which are important for production of polymeric articles



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