



Fast Liquid-Phase Processes in Turbulent Flows

Karl Minsker, Alexander Berlin, Vadim Zakharov, Gennady Zaikov

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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 generalized to the analysis of fast chemical reactions mainly based on an example of cationic isobutylene polymerization, which falls into to a new class of liquid-phase processes. The ways of decision of the hydrodynamical, thermal and kinetic movementâ€™s equations of reaction mixture in which the fast exothermic chemical reaction runs are described. The principles and laws of formation of the essentially new mode of quasi-plug-flow mode are considered in turbulent flows ensuring quasi-isothermal conditions in zone reaction. The principles of work and area of industrial use of tubular turbulent devices cylindrical reactor, divergent-covergent reactor, shell-and-tube reactor, and reactor with fractional introduction of reactants are considered.

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