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Single and Two-Phase Flows on Chemical and Biomedical Engineering

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About the ebook

Single or two-phase flows are ubiquitous in most natural process and engineering systems. This e- book is a review on the state-of-the-art and recent advances in critical areas of fluid mechanics and transport phenomena with respect to chemical and biomedical engineering applications.

Contents

- ▶ Spacims-Probing the Internal Behaviour of 3D Structured Materials
- ▶ Modelling of a Monolithic Reverse Flow Reactor for Selective Catalytic Reduction of NO by Ammonia
- ▶ Mesoscopic Simulation of Rarefied Gas Flow in Porous Media
- ▶ Mixing Through Half a Century of Chemical Engineering
- ▶ Application of the Probability Density Function Method to Turbulent Mixing with Chemical Reaction
- ▶ Activated Sludge Models Coupled to CFD Simulations
- ▶ Advances on Viscoelastic Fluid Flow Simulation

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