



Multiphase Catalytic Reactors: Theory, Design, Manufacturing, and Applications

Zeynep Ilsen Önsan, Ahmet Kerim Avci

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- Provides a holistic approach to multiphase catalytic reactors from their modeling and design to their applications in industrial manufacturing of chemicals
- Covers theoretical aspects and examples of fixed-bed, fluidized-bed, trickle-bed, slurry, monolith and microchannel reactors
- Includes chapters covering experimental techniques and practical guidelines for lab-scale testing of multiphase reactors
- Includes mathematical content focused on design equations and empirical relationships characterizing different multiphase reactor types together with an assortment of computational tools
- Involves detailed coverage of multiphase reactor applications such as Fischer-Tropsch synthesis, fuel processing for fuel cells, hydrotreating of oil fractions and biofuels processing

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