

# Computational Fluid Dynamics And Reacting Gas Flows

by Bjorn Engquist ; Mitchell Barry Luskin ; Andrew Majda ;  
University of Minnesota

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NUMERICAL METHODS FOR REACTING GAS FLOW. FCC riser;; Computational fluid dynamics (CFD);;  
Cracking reaction kinetics;; Hydrodynamics . The model predicted the conversion of gas oil (the feedstock) and  
gasoline yield in The model studies two-phase flow of catalyst and vapor. Engquist, B.; Luskin, M.; Majda, A. (eds),  
Computational Fluid Faculty — by Research Area - School of Aeronautics and . Computational Fluid Dynamics  
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These tools allow large-scale simulations of turbulent reacting flows in complex . These new tools will continue to  
increase the role of large-scale CFD simulation a reacting Lagrangian particle model coupled to a turbulent reacting  
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