Advances in

CHEMICAL ENGINEERING

MULTISCALE SIMULATION AND DESIGN

VOLUME 40

ADVANCES IN CHEMICAL ENGINEERING

Editor-in-Chief

GUY B. MARIN
Department of Chemical Engineering,
Ghent University,
Ghent, Belgium

Editorial Board

DAVID H. WEST Research and Development The Dow Chemical Company Freeport, Texas, U.S.A.

JINGHAI LI Institute of Process Engineering Chinese Academy of Sciences Beijing, P.R. China

SHANKAR NARASIMHAN Department of Chemical Engineering Indian Institute of Technology Chennai, India

Advances in

CHEMICAL ENGINEERING

MULTISCALE SIMULATION AND DESIGN

VOLUME 40

Edited by GUY B. MARIN



