



# Process Intensification in Chemical Engineering: Design Optimization and Control

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This book will provide researchers and graduate students with an overview of the recent developments and applications of process intensification in chemical engineering. It will also allow the readers to apply the available intensification techniques to their processes and specific problems. The content of this book can be readily adopted as part of special courses on process control, design, optimization and modelling aimed at senior undergraduate and graduate students. This book will be a useful resource for researchers in process system engineering as well as for practitioners interested in applying process intensification approaches to real-life problems in chemical engineering and related areas.

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Prof. Dr. Adrián Bonilla-Petriciolet: He is currently Full Professor in the Department of Chemical Engineering of the Aguascalientes Institute of Technology, Mexico. He has worked as a research visitor at the Texas A&M University, USA (2003) and National University of Singapore, Singapore (2010). He has published more than 75 papers in international journals, 11 book chapters and several refereed conference proceedings in the broad areas of process modelling, applied thermodynamics, adsorption engineering and optimization. His research interests include stochastic global optimization, applied thermodynamics, modeling and optimization of chemical processes. Prof. Bonilla-Petriciolet co-edited two books (one on multi-objective optimization and another on activated carbon for wastewater treatment) published by John Wiley and INTECH. In the process modeling and optimization area, Prof. Bonilla-Petriciolet has supervised 4 Ph.D. theses and 10 M.Sc. theses. He is a reviewer for several international journals and has worked in several research projects granted by Mexican Government.

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