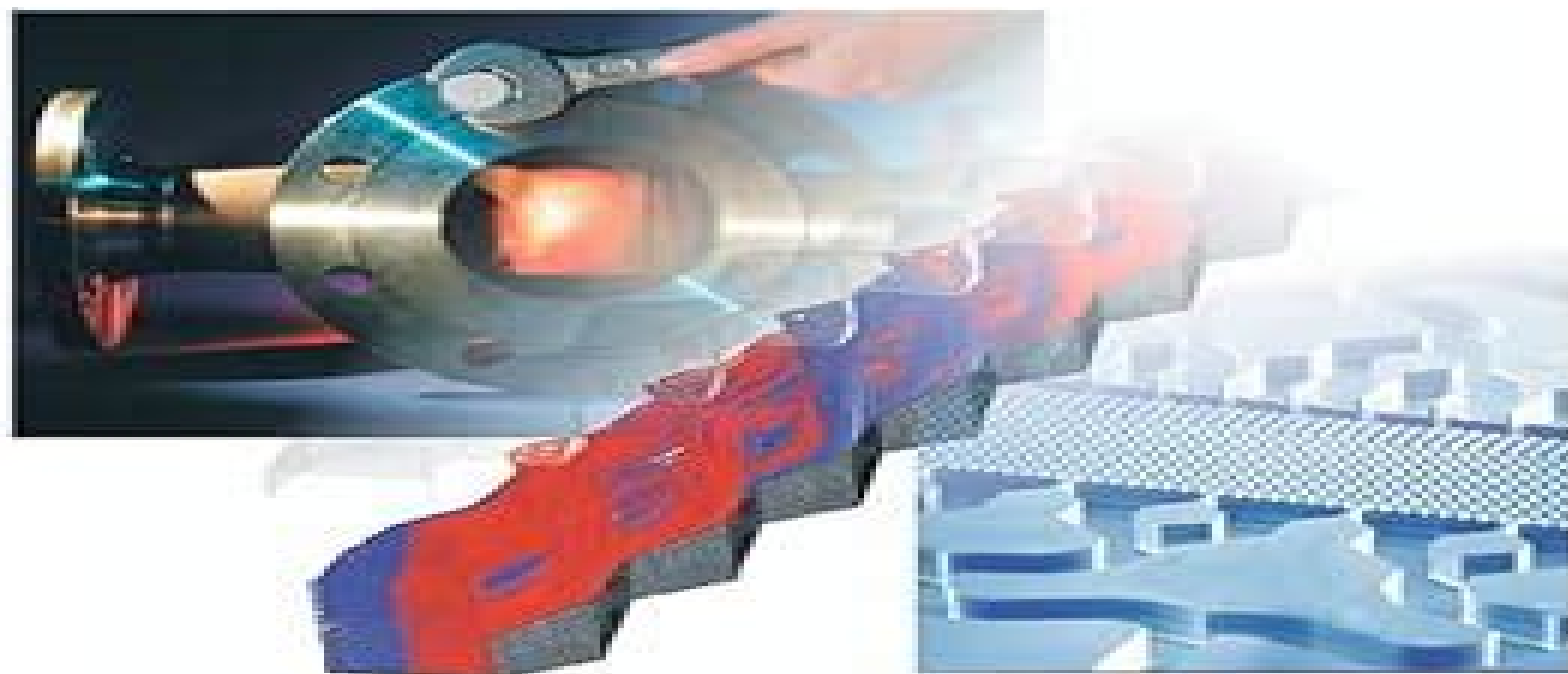


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Chemical Micro Process Engineering

Fundamentals, Modelling and Reactions



Chemical Micro Process Engineering Fundamentals Modelling And Reactions

Benjamin Oyegbile



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book focuses on processes rather than on devices what is before and behind micro device fabrication A comprehensive and detailed overview is given on A multi faceted hierarchic analysis of chemical micro process technology Modelling and simulation of micro reactors Liquid and liquid liquid phase reactions Gas liquid reactions Gas phase reactions heterogeneous catalysis **Micro Process Engineering, 3 Volume Set** Volker Hessel,Albert Renken,Jaap C. Schouten,Jun-Ichi

Yoshida,2009-03-23 This three volume handbook provides an overview of the key aspects of micro process engineering Volume 1 covers the fundamentals operations and catalysts volume 2 examines devices reactions and applications with volume 3 rounding off the trilogy with system process and plant engineering Fluid dynamics mixing heat mass transfer purification and separation microstructured devices and microstructured reactors are explained in the first volume Volume 2 segments microreactor design fabrication and assembly bulk and fine chemistry polymerisation fuel processing and functional materials into understandable parts The final volume of the handbook addresses microreactor systems design and scale up sensing analysis and control chemical process engineering economic and eco efficiency analyses as well as microreactor plant case studies in one book Together this 3 volume handbook explains the science behind micro process engineering to the scale up and their real life industrial applications Micro Reaction Technology in Organic Synthesis

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not covered in the first edition Significant changes in five of the fundamental areas are covered in entirely updated or new chapters The original text is provided as a searchable pdf file on the accompanying USB This book explains industrial mixers and mixing problems clearly and concisely Gives practical insights by the top professionals in the field combining industrial design standards with fundamental insight Details applications in 14 key industries Six of these are new since the first edition Provides the professional with information he she did not receive in school Five completely rewritten chapters on mixing fundamentals where significant advances have happened since the first edition and seven concise update chapters which summarize critical technical information

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