



## Novel Process Windows for Enabling, Speeding-up and Uplifting Chemistry

By Hessel, Volker / Kralisch, Dana

Condition: New. Publisher/Verlag: Wiley-VCH | Innovative Gates to Intensified and Sustainable Chemical Processes. for Enabling, Speeding-up, and Uplifting Chemistry | This book introduces the concept of novel process windows, focusing on cost improvements, safety, energy and eco-efficiency throughout each step of the process. The first part presents the new reactor and process-related technologies, introducing the potential and benefit analysis. The core of the book details scenarios for unusual parameter sets and the new holistic and systemic approach to processing, while the final part analyses the implications for green and cost-efficient processing. With its practical approach, this is invaluable reading for those working in the pharmaceutical, fine chemicals, fuels and oils industries. | FROM GREEN CHEMISTRY TO GREEN ENGINEERING - FOSTERED BY NOVEL PROCESS WINDOWS EXPLORED IN MICRO-PROCESS ENGINEERING/FLOW CHEMISTRY Prelude - Potential for Green Chemistry and Engineering Green Chemistry Green Engineering Micro- and Milli-Process Technologies Flow Chemistry Two Missing Links - Cross-Related NOVEL PROCESS WINDOW Transport Identification - The Potential of Reaction Engineering Chemical Reactivity in Match or Mismatch to Intensified Engineering Chemical Intensification through Harsh Conditions - Novel Process Windows Flash Chemistry Process-Design Intensification CHEMICAL INTENSIFICATION Length Scale Time Scale Length and Time Scale of Chemical Reactions Temperature Intensification Pressure Intensification MAKING USE OF THE "FORBIDDEN" - EX-REGIME/HIGH SAFETY PROCESSING Hazardous Reactants and Intermediates Ex-Regime and Thermal Runaway Processing EXPLORING NEW PATHS -...



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