



# Process Intensification Technologies for Green Chemistry: Engineering Solutions for Sustainable Chemical Processing

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## Process Intensification Technologies for Green Chemistry: Engineering Solutions for Sustainable Chemical Processing

The successful implementation of greener chemical processes relies not only on the development of more efficient catalysts for synthetic chemistry but also, and as importantly, on the development of reactor and separation technologies which can deliver enhanced processing performance in a safe, cost-effective and energy efficient manner. Process intensification has emerged as a promising field which can effectively tackle the challenges of significant process enhancement, whilst also offering the potential to diminish the environmental impact presented by the chemical industry.

Following an introduction to process intensification and the principles of green chemistry, this book presents a number of intensified technologies which have been researched and developed, including case studies to illustrate their application to green chemical processes.

Topics covered include:

- Intensified reactor technologies: spinning disc reactors, microreactors, monolith reactors, oscillatory flow reactors, cavitation reactors
- Combined reactor/separator systems: membrane reactors, reactive distillation, reactive extraction, reactive absorption
- Membrane separations for green chemistry
- Industry relevance of process intensification, including economics and environmental impact, opportunities for energy saving, and practical considerations for industrial implementation.

*Process Intensification for Green Chemistry* is a valuable resource for practising engineers and chemists alike who are interested in applying intensified reactor and/or separator systems in a range of industries to achieve green chemistry principles.

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