



# Integrated Design and Simulation of Chemical Processes (Computer Aided Chemical Engineering)

*By Alexandre C. Dimian, Costin S. Bildea, Anton A. Kiss*

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This comprehensive work shows how to design and develop innovative, optimal and sustainable chemical processes by applying the principles of process systems engineering, leading to integrated sustainable processes with 'green' attributes. Generic systematic methods are employed, supported by intensive use of computer simulation as a powerful tool for mastering the complexity of physical models.

New to the second edition are chapters on product design and batch processes with applications in specialty chemicals, process intensification methods for designing compact equipment with high energetic efficiency, plantwide control for managing the key factors affecting the plant dynamics and operation, health, safety and environment issues, as well as sustainability analysis for achieving high environmental performance. All chapters are completely rewritten or have been revised.

This new edition is suitable as teaching material for Chemical Process and Product Design courses for graduate MSc students, being compatible with academic requirements world-wide. The inclusion of the newest design methods will be of great value to professional chemical engineers.

- Systematic approach to developing innovative and sustainable chemical processes
- Presents generic principles of process simulation for analysis, creation and assessment
- Emphasis on sustainable development for the future of process industries

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