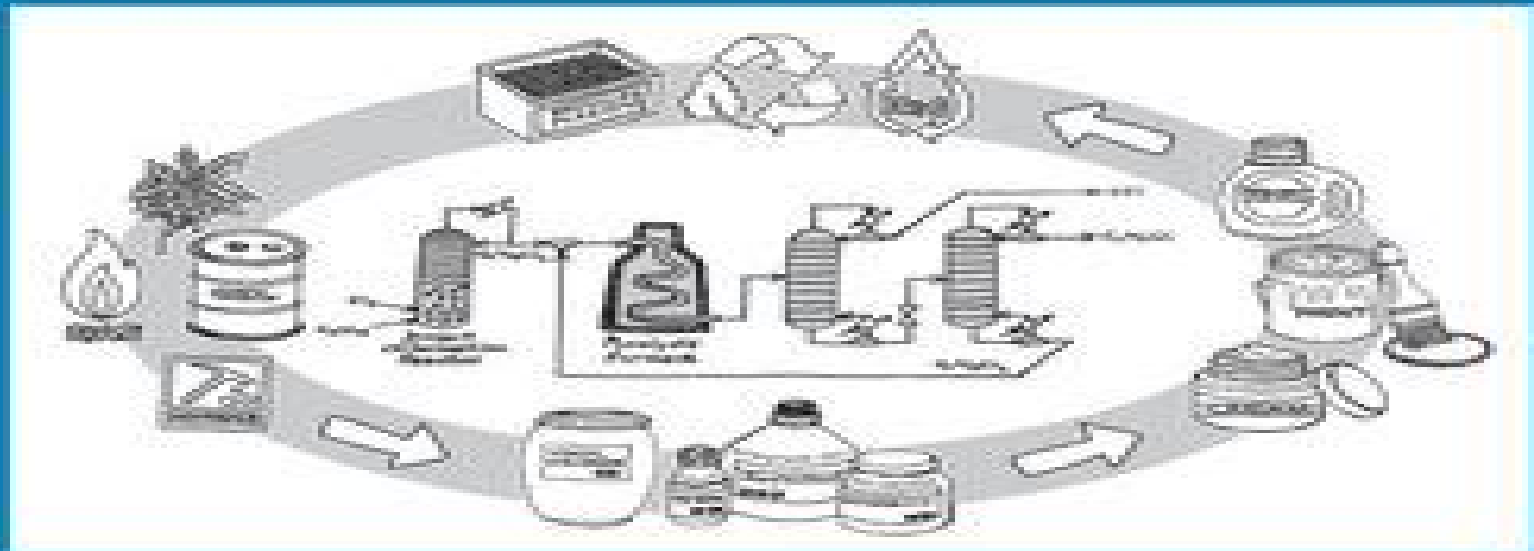


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Synthesis, Analysis and Evaluation
FOURTH EDITION



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Process Design Principles Synthesis Analysis And Evaluation

**Andrzej Stankiewicz, Tom Van
Gerven, Georgios Stefanidis**



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Principles Warren D. Seider, J. D. Seader, Daniel R. Lewin, 1999 Accompanied by CD ROM Simulation of process flowsheets

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The Fundamentals of Process Intensification

Andrzej Stankiewicz,Tom Van Gerven,Georgios Stefanidis,2019-09-16 This advanced textbook covering the fundamentals and industry applications of process intensification PI discusses both the theoretical and conceptual basis of the discipline Since interdisciplinarity is a key feature of PI the material contained in the book reaches far beyond the classical area of chemical engineering Developments in other relevant disciplines such as chemistry catalysis energy technology applied physics electronics and materials science are extensively described and discussed while maintaining a chemical engineering perspective Divided into three major parts the first introduces the PI principles in detail and illustrates them using practical examples The second part is entirely devoted to fundamental approaches of PI in four domains spatial thermodynamic functional and temporal The third and final part explores the methodology for applying fundamental PI approaches in practice As well as detailing technologies the book focuses on safety energy and environmental issues giving guidance on how to incorporate PI in plant design and operation safely efficiently and effectively

The Science of Tequila

Anne Gschaedler Mathis,Melchor Arellano Plaza,Manuel Kirchmayr,Enrique J. Herrera-López,2025-06-27 The Science of Tequila is the first English language book published on Tequila production The book contextualizes tequila with historical social and cultural information covering the cultivation of the Agave tequilana plant the stages of the tequila production process and the characterization of the final product Finally the management of tequila by products are covered including their sustainable uses and potential as biofuels This book will be of interest to beverage scientists interested in the distillation and fermentation of alcoholic beverages plant scientists interested in the agave plant and engineers in the alcoholic beverages biorefinery vinasses and waste treatment

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