

GREEN CHEMISTRY AND CHEMICAL ENGINEERING

PROCESS INTEGRATION FOR RESOURCE CONSERVATION

SECOND EDITION

Water minimization

**Gas
recovery**



**Property
integration**

Heat integration

Dominic C. Y. Foo



CRC Press
Taylor & Francis Group

Process Integration For Resource Conservation Green Chemistry And Chemical Engineering

Daniel H. Chen



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Process Integration for Resource Conservation Dominic C.Y. Foo, 2025-01-31 To achieve environmental sustainability in industrial plants resource conservation activities such as material recovery have begun incorporating process integration techniques for reusing and recycling water utility gases solvents and solid waste Process Integration for Resource Conservation presents state of the art cost effective techniques including pinch analysis and mathematical optimization for numerous conservation problems The second edition of this best seller adds new chapters on heat integration and retrofitting of resource conservation networks and features multiple optimization examples via downloadable MS Excel spreadsheets Emphasizes the goal of setting performance targets ahead of detailed design following the holistic philosophy of process integration Explains various industrial examples step by step and offers demo software and other materials online Features a wealth of industrial case studies Adds chapters on heat integration combined heat and power heat integrated water network and retrofit of resource conservation network Adds new optimization examples and downloadable MS Excel files on superstructural approaches and automated targeting models for direct reuse recycle and regeneration Ideal for students preparing for real world work as well as industrial practitioners in chemical processing the text provides a systematic guide to the latest process integration techniques for performing material recovery in process plants The book features a solutions manual lecture slides and figure slides for adopting professors to use in their courses

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preventing pollution Written by one of the world's foremost authorities on integrated process design and sustainability the new edition contains new chapters and updated materials on various aspects of process integration and sustainable design The new edition is also packed with numerous new examples and industrial applications Allows the reader to methodically develop rigorous targets that benchmark the performance of industrial processes then develop cost effective implementations Contains state of the art process integration and improvement approaches and techniques including graphical algebraic and mathematical methods Covers topics and applications that include profitability enhancement mass and energy conservation synthesis of innovative processes retrofitting of existing systems design and assessment of water energy and water energy nexus systems and reconciliation of various sustainability objectives **Handbook of Process**

Integration (PI) Jiří Jaromír Klemeš, 2022-11-09 Handbook of Process Integration PI Minimisation of Energy and Water Use Waste and Emissions Second Edition provides an up to date guide on the latest PI research and applications Since the first edition published methodologies and sustainability targets have developed considerably Each chapter has been fully updated with six new chapters added in this release covering emissions transport water scarcity reliability and maintenance environmental impact and circular economy This version also now includes worked examples and simulations to deepen the reader's understanding With its distinguished editor and international team of expert contributors this book is an important reference work for managers and researchers in all energy and sustainability industries as well as academics and students in Energy Chemical Process and Environmental Engineering Provides a fully updated handbook with six new chapters that reflect the latest research and applications on process integration Reviews a wide range of process design and integration topics ranging from heat and utility systems to water recycling waste and hydrogen systems Covers equipment design and operability issues with a strong extension to environmental engineering and suitability issues Process Integration

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Institution of Chemical Engineers a fellow of the Academy of Science Malaysia a chartered engineer with the UK Engineering Council and a professional engineer with the Board of Engineers Malaysia He works on process integration for resource conservation and CO₂ reduction with more than 400 published works Prof Foo is the co editor in chief for Process Integration and Optimization for Sustainability subject editor for Process Safety Environmental Protection and an editorial board member for several other renowned journals Raymond R Tan is a professor of chemical engineering and university fellow at De La Salle University Philippines He is also a member of the National Academy of Science and Technology of the Philippines His main areas of research are process systems engineering and process integration where he has over 300 published works Prof Tan received his BS and MS degrees in chemical engineering and PhD in mechanical engineering from De La Salle University He is also a co editor in chief of Process Integration and Optimization for Sustainability subject editor of Sustainable Production and Consumption and an editorial board member of Clean Technologies and Environmental Policy

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protection and remediation Discusses oil and gas drilling impacts and pollution prevention membrane technology for water desalination and purification biodegradation and bioremediation for soil and water Details emerging nanotechnology biotechnology and information technology applications as well as sustainable processes and products Heat Pumps in Chemical Process Industry Anton A. Kiss, Carlos A. Infante Ferreira, 2016-10-14 As the chemical process industry is among the most energy demanding sectors chemical engineers are endeavoring to contribute towards sustainable future Due to the limitation of fossil fuels the need for energy independence as well as the environmental problem of the greenhouse gas effect there is a large increasing interest in the research and development of chemical processes that require less capital investment and reduced operating costs and lead to high eco efficiency The use of heat pumps is a hot topic due to many advantages such as low energy requirements as well as an increasing number of industrial applications Therefore in the current book authors are focusing on use of heat pumps in the chemical industry providing an overview of heat pump technology as applied in the chemical process industry covering both theoretical and practical aspects working principle applied thermodynamics theoretical background numerical examples and case studies as well as practical applications The worked out examples have been included to instruct students engineers and process designers about how to design various heat pumps used in the industry Reader friendly resources namely relevant equations diagrams figures and references that reflect the current and upcoming heat pump technologies will be of great help to all readers from the chemical and petrochemical industry biorefineries and other related areas

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Chemical Engineering. The final chapter will summarize the key points that have been discussed throughout the book. The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Process Integration For Resource Conservation Green Chemistry And Chemical Engineering.

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