

CHEMICAL ENGINEERING DESIGN

*Principles, Practice and Economics
of Plant and Process Design*

Gavin Towler • Ray Sinnott

THIRD EDITION



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Wilcox, 2012-03-28 This book approaches the energy science sub field carbon capture with an interdisciplinary discussion based upon fundamental chemical concepts ranging from thermodynamics combustion kinetics mass transfer material properties and the relationship between the chemistry and process of carbon capture technologies Energy science itself is a broad field that spans many disciplines policy mathematics physical chemistry chemical engineering geology materials science and mineralogy and the author has selected the material as well as end of chapter problems and policy discussions that provide the necessary tools to interested students Advances in Technologies for Producing Food-relevant

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Engineering Capstone Design Alexei Morozov,Rosaire Mongrain,Mark Driscoll,Peter Radziszewski,Benoit Boulet,2025-09-23 A concise and practical guide to succeeding in the undergraduate engineering capstone design project In *Engineering Capstone Design Project Planning Organizing and Executing* a team of accomplished engineers delivers a practical guide for engineering students undertaking their capstone design project course in the final year of their bachelor program It covers two aspects of the capstone course planning and the design process You ll explore how to organize your team manage and develop your project and communicate with clients advisors suppliers and manufacturers You ll also discover a detailed step by step approach to the design process following the milestones and requirements of engineering capstone design courses The book focuses on the process of mechanical engineering design but also includes material covering electrical chemical biomedical and control systems engineering design It also offers several illustrative case studies of successful capstone design projects completed at McGill University Readers will also find A thorough introduction to the principles of organization of capstone design courses including learning attributes and grade attribution Comprehensive step by step instructions to the design process Useful case studies from academic industrial and McGill student design competition capstone projects Examples and anecdotes drawn from the authorial team s extensive professional and academic experience in engineering design and project advice Perfect for undergraduate students taking the capstone mechanical engineering project course *Engineering Capstone Design Project Planning Organizing and Executing* will also benefit students of other engineering design courses seeking a clear step by step approach to the design process

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Emerging Technologies and Biological Systems for Biogas Upgrading Nabin Aryal,Lars Ditlev Morck Ottosen,Michael Vedel Wegener Kofoed,Deepak Pant,2021-03-31 Emerging Technologies and Biological Systems for Biogas Upgrading systematically summarizes the fundamental principles and the state of the art of biogas cleaning and upgrading technologies with special emphasis on biological processes for carbon dioxide CO₂ hydrogen sulfide H₂S siloxane and hydrocarbon removal After analyzing the global scenario of biogas production upgrading and utilization this book discusses the integration of methanation processes to power to gas systems for methane CH₄ production and physiochemical upgrading technologies such as chemical absorption water scrubbing pressure swing adsorption and the use of membranes It then explores more recent and sustainable upgrading technologies such as photosynthetic processes using algae hydrogen mediated microbial techniques electrochemical bioelectrochemical and cryogenic approaches H₂S removal with biofilters is also covered as well as removal of siloxanes through polymerization peroxidation biological degradation and gas liquid absorption The authors also thoroughly consider issues of mass transfer limitation in biomethanation from waste gas biogas upgrading and life cycle assessment of upgrading technologies techno economic aspects challenges for upscaling and future trends Providing specific information on biogas upgrading technology and focusing on the most recent developments Emerging Technologies and Biological Systems for Biogas Upgrading is a unique resource for researchers engineers and graduate students in the field of biogas production and utilization including waste to energy and power to gas It is also useful for entrepreneurs consultants and decision makers in governmental agencies in the fields of sustainable energy environmental protection greenhouse gas emissions and climate change and strategic planning Explores all major technologies for biogas upgrading through

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