

CHEMICAL ENGINEERING

PROCESS DESIGN AND ECONOMICS
A PRACTICAL GUIDE



SECOND EDITION

Gael D. Ulrich

| Palligamai T. Vasudevan

Chemical Engineering Process Design Economics A Practical Guide

James R. Couper, W. Roy Penney



Chemical Engineering Process Design Economics A Practical Guide:

Chemical Engineering Process Design and Economics Gael D. Ulrich, Palligarnai T. Vasudevan, 2004-01-01 **Process Design, Economics, and Project Engineering** Wayne Seames, 2025-11-20

The principal goal of this textbook is to prepare process and chemical engineers for careers in a wide variety of process related jobs. This book will also serve as a reference resource for engineers working in the process and process design industries. It assumes prerequisite knowledge of material and energy balances, heat transfer, fluid flow, and mass transfer, but does not require any prerequisite knowledge of economics, process control, process safety, or material selection. Its structure is uniquely organized to follow the project life cycle that is most commonly used by engineering contractors and the operating companies they serve in the process industries.

KEY FEATURES: Covers both retrofit and new process projects. Includes a set of easy to use step by step preliminary equipment sizing methods. Offers realistic rules of thumb for equipment sizing and pressure profiles. Discusses professional development topics such as time management, planning and scheduling, teamwork, leadership, conflict resolution, technical writing, effective meetings, and oral communication. Addresses safety and sustainability considerations in process design. Includes a unified suite of cost estimating methods for simple retrofits, major retrofits, and grassroots projects. Covers process project economics and how to evaluate process opportunities, including a method to estimate economic benefits for difficult to quantify opportunities. Includes information on plant layout, auxiliary systems, and process automation. Features homework problems and examples, case study, example reports, Visio drawing templates, and Excel workbooks with example calculations for economic analysis. This textbook is aimed at advanced undergraduate students in chemical engineering studying process, plant design, and economics, and serves as a handbook for practicing process and process project engineers. A solutions manual and lecture slides are available to qualifying adopting instructors.

Chemical Engineering Design Gavin Towler, Ray Sinnott, 2007-11-26

Bottom line: For a holistic view of chemical engineering design, this book provides as much if not more than any other book available on the topic.

Extract from Chemical Engineering Resources review: *Chemical Engineering Design* is one of the best known and widely adopted texts available for students of chemical engineering. It deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this US edition has been specifically developed for the US market. It covers the latest aspects of process design, operations, safety, loss prevention, and equipment selection, among others. Comprehensive in coverage, exhaustive in detail, it is supported by extensive problems and a separate solutions manual for adopting tutors and lecturers. In addition, the book is widely used by professions as a day to day reference. Provides students with a text of unmatched relevance for the Senior Design Course and Introductory Chemical Engineering Courses. Teaches commercial engineering tools for simulation and costing. Comprehensive coverage of unit operations, design, and economics. Strong emphasis on HSE issues, codes, and standards, including API, ASME, and ISA design codes, and ANSI standards. 108 realistic commercial design projects from diverse

industries Chemical Engineering Design Gavin Towler,R K Sinnott,2012-01-13 Bottom line For a holistic view of chemical engineering design this book provides as much if not more than any other book available on the topic Extract from Chemical Engineering Resources review Chemical Engineering Design is a complete course text for students of chemical engineering Written for the Senior Design Course and also suitable for introduction to chemical engineering courses it covers the basics of unit operations and the latest aspects of process design equipment selection plant and operating economics safety and loss prevention It is a textbook that students will want to keep through their undergraduate education and on into their professional lives **Chemical Engineering Design** Ray Sinnott,Gavin Towler,2009-05-15 Chemical Engineering Design is one of the best known and most widely adopted texts available for students of chemical engineering It completely covers the standard chemical engineering final year design course and is widely used as a graduate text The hallmarks of this renowned book have always been its scope practical emphasis and closeness to the curriculum That it is written by practicing chemical engineers makes it particularly popular with students who appreciate its relevance and clarity Building on this position of strength the fifth edition covers the latest aspects of process design operations safety loss prevention and equipment selection and much more Comprehensive in coverage exhaustive in detail and supported by extensive problem sets at the end of each chapter this is a book that students will want to keep to hand as they enter their professional life The leading chemical engineering design text with over 25 years of established market leadership to back it up an essential resource for the compulsory design project all chemical engineering students take in their final year A complete and trusted teaching and learning package the book offers a broader scope better curriculum coverage more extensive ancillaries and a more student friendly approach at a better price than any of its competitors Endorsed by the Institution of Chemical Engineers guaranteeing wide exposure to the academic and professional market in chemical and process engineering A Guide to Chemical Engineering Process Design and Economics Gael D. Ulrich,1984-03-13 Upper level undergraduate text for process design courses in chemical engineering Introduces students to the technology and terminology they will encounter in industrial practice Presents short cut techniques for specifying equipment or isolating important elements of a design project Emphasizes project definition flow sheet development and equipment specification Covers the economics of process design End of chapter exercises guide students through step by step solutions of design problems Includes four case studies from past AIChE competitions **Engineering Economics and Economic Design for Process Engineers** Thane Brown,2016-04-19 Engineers often find themselves tasked with the difficult challenge of developing a design that is both technically and economically feasible A sharply focused how to book Engineering Economics and Economic Design for Process Engineers provides the tools and methods to resolve design and economic issues It helps you integrate technical a

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Techno-Economic Modeling for Chemical and Bioprocess Innovations Chris Burk,2025-11-04 Build spreadsheet based techno economic models to understand factors driving economic value Techno economic modeling examines how technical and financial parameters influence the economic value of a technology at the commercial scale Techno Economic Modeling for Chemical and Bioprocess Innovations is a practical guide to building spreadsheet based techno economic models and using them to make better decisions on the road to market Inside this book Explains the role of techno economic modeling in advancing new technologies toward commercialization Presents spreadsheet best practices that form the foundation for effective and efficient techno economic modeling Teaches how to combine process modeling equipment sizing and cost estimation in a cohesive and usable spreadsheet model Introduces techniques for analyzing model results to assess economic viability quantify uncertainty inform R D priorities and improve stakeholder communication Provides practical Excel and VBA examples with two complete sample models available online This book equips readers with the tools to combine science engineering and cost estimation It is an essential resource for chemical and bioprocess engineers including academics startup teams and advanced students working to bring innovations into the world

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