

CHEMICAL ENGINEERING

PROCESS DESIGN AND ECONOMICS
A PRACTICAL GUIDE



SECOND EDITION

Gael D. Ulrich



Palligamai T. Vasudevan

Chemical Engineering Process Design And Economics A Practical

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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 Process Engineering* Harry Silla, 2003-08-08 This illustrative reference presents a systematic approach to solving design problems by listing the needed equations calculating degrees of freedom developing calculation procedures to generate process specifications and sizing equipment Containing over thirty detailed examples of calculation procedures the book tabulates numerous easy to follow calculation procedures as well as the relationships needed for sizing commonly used equipment *Chemical Process Engineering* emphasizes the evaluation and selection of equipment by considering its mechanical design and encouraging the selection of standard size equipment offered by manufacturers to lower costs *Plant Design and Economics for Chemical Engineers* Max S. Peters, Klaus D. Timmerhaus, 1980 The fifth edition of *Plant Design and Economics for Chemical Engineers* is a major revision of the popular fourth edition There are new chapters on process synthesis computer aided design and design of chemical reactors A traditionally strong feature of the text economic analysis has been revamped and updated Another strength equipment sizing and cost estimation is updated and expanded as well These improvements also reflect changes in equipment availability The numerous real examples throughout the book include computer or hand solutions and

often both There is a new increased emphasis on computer use in design economic evaluation and optimization Concepts strategies and approaches to computer use are featured These concepts are not tied to particular software programs and therefore apply to wide a range of applications software of both current and future release This widely used text is now more useful than ever providing a one stop guide to chemical process design and evaluation Chemical Engineering Design Gavin Towler, Ray Sinnott, 2012-01-25 Chemical Engineering Design Second Edition deals with the application of chemical engineering principles to the design of chemical processes and equipment Revised throughout this edition has been specifically developed for the U S market It provides the latest US codes and standards including API ASME and ISA design codes and ANSI standards It contains new discussions of conceptual plant design flowsheet development and revamp design extended coverage of capital cost estimation process costing and economics and new chapters on equipment selection reactor design and solids handling processes A rigorous pedagogy assists learning with detailed worked examples end of chapter exercises plus supporting data and Excel spreadsheet calculations plus over 150 Patent References for downloading from the companion website Extensive instructor resources including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors This text is designed for chemical and biochemical engineering students senior undergraduate year plus appropriate for capstone design courses where taken plus graduates and lecturers tutors and professionals in industry chemical process biochemical pharmaceutical petrochemical sectors New to this edition Revised organization into Part I Process Design and Part II Plant Design The broad themes of Part I are flowsheet development economic analysis safety and environmental impact and optimization Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects New discussion of conceptual plant design flowsheet development and revamp design Significantly increased coverage of capital cost estimation process costing and economics New chapters on equipment selection reactor design and solids handling processes New sections on fermentation adsorption membrane separations ion exchange and chromatography Increased coverage of batch processing food pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards including API ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning with detailed worked examples end of chapter exercises plus supporting data and Excel spreadsheet calculations plus over 150 Patent References for downloading from the companion website Extensive instructor resources 1170 lecture slides plus fully worked solutions manual available to adopting instructors **Practical Process Design for Chemical Engineers** Keith Marchildon, David Mody, 2025-01-29 In depth and practical textbook resource on chemical engineering processes ranging from fundamentals to advanced aspects Practical

Process Design for Chemical Engineers presents an extensive overview of the fundamental and advanced aspects of chemical engineering processes. Spanning 20 chapters, the book delves into various processes, equipment, and methodologies essential for modern chemical engineering, from basic principles to specific applications such as reactors, separations, and process integration. Each chapter systematically covers both theoretical concepts and practical applications, emphasizing process design, operational efficiency, environmental considerations, and safety. The book aims to equip chemical engineers with a robust toolkit for tackling diverse challenges in the industry, emphasizing innovation, sustainability, and the integration of new technologies. Unlike conventional texts that often focus primarily on established methods and theoretical fundamentals, this book actively explores innovative technologies and strategies to enhance efficiency and minimize environmental impact. Additionally, the book places significant emphasis on practical experience and real-world applications, imbuing readers not only with theoretical knowledge but also with practical skills and an understanding of industry trends. The book covers Creativity, choice, and decision making in chemical engineering, emphasizing the artistic and imaginative aspects of process design. Solids processes such as size reduction, granulation, particle measurement and classification, and the conveyance of solids. Principles and methods employed to mix diverse materials such as miscible and immiscible liquids, gases with liquids, and solids with liquids or gases. Critical aspects of heat exchange in chemical processes, focusing on the heating, cooling, and phase changes of various substances. Estimation of process engineering hours. With detailed discussions on process intensification and the latest developments in solvent and reactor technologies, and a focus on modern sustainable practices alongside traditional engineering concepts, this book serves as a vital resource for students and professionals seeking to polish and hone their knowledge and practice in chemical engineering design.

Chemical Process Design and Integration Robin Smith, 2016-08-02. Written by a highly regarded author with industrial and academic experience, this new edition of an established bestselling book provides practical guidance for students, researchers, and those in chemical engineering. The book includes a new section on sustainable energy with sections on carbon capture and sequestration as a result of increasing environmental awareness and a companion website that includes problems, worked solutions, and Excel spreadsheets to enable students to carry out complex calculations.

Chemical Process Engineering, 2015 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.

Preliminary Chemical Process Design and Economics Daniel William Tedder, 2005-11-01. This textbook is derived from notes developed by the author while teaching chemical engineering design and economics at

the Georgia Institute of Technology in Atlanta GA Technology Industrial Arts **Analysis, Synthesis, and Design of Chemical Processes** Richard Turton, 2012 Process design is the focal point of chemical engineering practice the creative activity through which engineers continuously improve facility operations to create products that enhance life Effective chemical engineering design requires students to integrate a broad spectrum of knowledge and intellectual skills so they can analyze both the big picture and minute details and know when to focus on each Through three previous editions this book has established itself as the leading resource for students seeking to apply what they've learned in real world open ended process problems The authors help students hone and synthesize their design skills through expert coverage of preliminary equipment sizing flowsheet optimization economic evaluation operation and control simulation and other key topics This new Fourth Edition is extensively updated to reflect new technologies simulation techniques and process control strategies and to include new pedagogical features including concise summaries and end of chapter lists of skills and knowledge Pub desc

Chemical Engineering Economics Chaplin Tyler, 1926 *The Art of Chemical Process Design* G. L. Wells, L. M. Rose, 1986 Illustrating all aspects of chemical process design this book demonstrates process synthesis material and heat balancing by manual and computerised methods the use of flowsheeting programs and their construction flowsheet development plant safety process economics and project engineering The reader is introduced to each of the key areas and is given further information to follow these up The process is developed as a whole entity with appropriate partitioning of certain tasks In recent years there has been increased activity in process synthesis particularly in the development of heat exchanger networks and distillation trains Various chapters describe and develop these and other areas of interest In particular note is made of the need to select appropriate unit operations for given process tasks Traditional manual methods of material and heat balancing introduce the computerised methods used in flowsheeting programs Plant safety continues to generate professional and public interest as catastrophes continue to occur The recent developments in this area are described

Ludwig's Applied Process Design for Chemical and Petrochemical Plants A. Kayode Coker, 2011-08-30 This complete revision of *Applied Process Design for Chemical and Petrochemical Plants* Volume 1 builds upon Ernest E Ludwig's classic text to further enhance its use as a chemical engineering process design manual of methods and proven fundamentals This new edition includes important supplemental mechanical and related data nomographs and charts Also included within are improved techniques and fundamental methodologies to guide the engineer in designing process equipment and applying chemical processes to properly detailed equipment All three volumes of *Applied Process Design for Chemical and Petrochemical Plants* serve the practicing engineer by providing organized design procedures details on the equipment suitable for application selection and charts in readily usable form Process engineers designers and operators will find more chemical petrochemical plant design data in Volume 2 Third Edition which covers distillation and packed towers as well as material on azeotropes and ideal non ideal systems Volume 3 Third Edition which covers heat transfer refrigeration systems

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