

PLANT DESIGN AND ECONOMICS FOR CHEMICAL ENGINEERS



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Chemical And Petroleum Engineering Series

FOURTH EDITION

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Plant Design And Economics For Chemical Engineers

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Plant Design and Economics for Chemical Engineers Max S. Peters, Klaus D. Timmerhaus, 1968

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PETERS, M.S. PLANT DESIGN AND ECONOMICS FOR CHEMICAL ENGINEERS., 1958

Plant Design and Economics for Chemical Engineers Warren Lee McCabe, Julian Cleveland Smith, 1976

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 HS E issues codes and standards including API ASME and ISA design codes and ANSI standards 108 realistic commercial design projects from diverse industries

Plant Design and Economics for Chemical Engineers [by] Max S. Peters [and] Klaus D.

Timmerhaus Max S. Peters, 1968

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Offers coverage of each important step in engineering cost control process from project justification to life cycle costs The book describes cost control systems and shows how to apply the principles of value engineering It explains estimating methodology and the estimation of engineering engineering equipment and construction and labour costs delineates productivity and cash flow analysis and more Manual of Process Economic Evaluation Alain Chauvel,Gilles Fournier,Claude Raimbault,2003 This volume will enable the reader to successfully undertake pre project evaluations especially in the areas of refining and petrochemistry It encompasses all the essential steps market analysis comparative studies of technical and economic issues sensitivity studies sizing and costing of the equipment required for an industrial scale plant estimation of capital spending calculation of costs and sales prices etc The first edition of this manual proved to be a very valuable teaching tool for universities and advanced engineering and business schools both in France and abroad It is essential for the rapid evaluation of the cost and profitability of proposed plants and of those already in operation It has been widely used by engineers consulting firms and corporate research and development departments Its status as the only current publication that covers all the steps involved in the economic evaluation of projects will render it particularly valuable to its users It will quickly become indispensable to everyone whose job it is to evaluate the economic impact of the development cancellation or reorientation of a project Contents 1 Market analysis 2 The elements of economic calculation 3 The determination of battery limits investments Appendix 1 Functional modules method FMM Appendix 2 PrE estimate method Bibliography Index *Engineering Economics and Economic Design for Process Engineers* Thane Brown,2006-10-27

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 and economic decision making, creating more profit and growth for your organization. The book puts methods that are simple, fast, and inexpensive within easy reach. Author Thane Brown sets the stage by explaining the engineer's role in the creation of economically feasible projects. He discusses the basic economics of projects: how they are funded, what kinds of investments they require, how revenues, expenses, profits, and risks are interrelated, and how cash flows into and out of a company. In the engineering economics section of the book, Brown covers topics such as present and future values, annuities, interest rates, inflation, and inflation indices. He details how to create order of magnitude and study grade estimates for the investments in a project and how to make study grade production cost estimates. Against this backdrop, Brown explores a unique scheme for producing an Economic Design. He demonstrates how using the Economic Design Model brings increased economic thinking and rigor into the early parts of design, the time in a project's life when its cost structure is being set and when the engineer's impact on profit is greatest. The model emphasizes three powerful new tools that help you create a comprehensive design option list. When the model is used early in a project, it can drastically lower both capital and production costs. The book's uniquely industrial focus presents topics as they would happen in a real work situation. It shows you how to combine technical and economic decision making to create economically optimum designs and increase your impact on profit and growth, and therefore your importance to your organization. Using these time-tested techniques, you can design processes that cost less to build and operate and improve your company's profit.

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