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Plant Design And Economics For , then editor of Chemical and Metallu~cal Engineering, served as chairman and was joined subsequently by S. D. Kirkpatrick as consulting editor. After several meetings, this committee submitted its report to the McGraw-Hill Book Company in September

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Plant Design and Economics for Chemical Engineers (International Edition) Paperback – January 1, 2013 by PETERS (Author) 4.3 out of 5 stars 31 ratings. See all formats and editions Hide other formats and editions. Price New from Used from Hardcover "Please retry" \$335.07 . \$335.06: \$99.96: Paperback "Please retry" \$37.00 .

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PROCESS DESIGN DEVELOPMENT CHAPTER 03
GENERAL DESIGN CONSIDERATIONS CHAPTER 06
Cost Estimation CHAPTER 07 Interest and Investment Costs CHAPTER 09 Depreciation CHAPTER10 Profitability, Alternative Invesments, and Replacements
CHAPTER 11 OPTIMUM DESIGN AND DESIGN

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Instructions for file "EQUIPMENT COSTS" accompanying Plant Design and Economics for Chemical Engineers, 5th edition, Peters, Timmerhaus, and West . 1. The opening sheet of the file EQUIPMENT COSTS is called CALCULATION PAGE. The column at the left lists equipment types alphabetically.

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9780071240444: Plant Design and Economics for Chemical ...

It is smart to benchmark a new plant design against an existing plant or pilot plant. Raw materials are typically the largest contributor to overall variable costs. For bulk chemicals and petrochemicals, raw materials represent 80-90% of the total cash cost of production (CCOP).

Estimation of production cost and revenue -
processdesign

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Peters and Timmerhaus: Plant Design and Economics for Chemical Engineers Reid, Prausnitz, and Rolling: The Properties of Gases and Liquids Sherwood, Pigford, and Wilke: Mass Transfer Smith, B. D.: Design of Efluilibrium Stage Processes Smith, J. M.: Chemical Engineering Kinetics

PLANT DESIGN AND ECONOMICS FOR CHEMICAL ENGINEERS ...

Plant design and Economics is a very important subject in the preparation of GATE. There are many books to learn but the best book is plant design and economics for chemical engineers by timmerhauz. It is indeed the best book ever on economics for chemical engineers.

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General design considerations such as plant layout, plant location, material of construction, and computer usage, are covered in depth to familiarize the reader with the complete set of ramifications for the plant design and economics for chemical engineering applications. Other Editions of Plant Design and Economics for Chemical Engineers

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hand solutions, with an increased emphasis on computer use in design, economic evaluation and optimization.

A revision of the classic text-reference for the chemical engineering "design" course usually offered to all Chemical Engineers at the junior/senior level. This new edition contains the latest cost data as well as new emphasis on safety and H42OPS and a new chapter on Computer-Aided Design. The book nicely balances both economics (cost estimating and cost data) and process equipment design in one text.

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.

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Part I: Process design -- Introduction to design -- Process flowsheet development -- Utilities and energy efficient design -- Process simulation -- Instrumentation and process control -- Materials of construction -- Capital cost estimating -- Estimating revenues and production costs -- Economic evaluation of projects -- Safety and loss prevention -- General site considerations -- Optimization in design -- Part II: Plant design -- Equipment selection, specification and design -- Design of pressure vessels -- Design of reactors and mixers -- Separation of fluids -- Separation columns (distillation, absorption and extraction) -- Specification and design of solids-handling equipment -- Heat transfer equipment -- Transport and storage of fluids.

Applying the proven success of modern process engineering economics to the food industry, Food Plant Economics considers the design and economic analysis of food preservation, food manufacturing, and food ingredients plants with regard to a number of representative food processes. Economic analysis of food plants requires the evaluation of quantita

Process Plant Design provides an introduction to the basic principles of plant design and shows how the fundamentals of design can be blended with commercial aspects to produce a final specification; how textbook parameters can be applied to the solution of real problems; and how training in chemical engineering can best be utilized in the industrial sphere. It has been

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assumed that the reader knows how to calculate a heat transfer coefficient and the height of an absorber, for example, and the bulk of the book is concerned with the translation of such parameters into plant items which are ultimately linked into the production unit. The book follows a fairly logical sequence in which flowsheets, heat and mass balances, for example, are considered before attention is paid to the design of plant items, exchangers, columns, and so on. Because of the vital role of economics in any design function, costing is dealt with early in the book and the principles further developed as appropriate. Rarely is the plant designer concerned with the design of smaller and standard items of equipment, and hence considerable emphasis is placed on the selection of such items. This section may prove of particular value to the engineer in industry, especially if he has not the backing of comprehensive technical manuals produced by the larger companies. Finally, an attempt is made to draw together the many facets of equipment design into one specification for the complete plant, and the many aspects relating to the completed unit are introduced in a final section.

Up-to-Date Coverage of All Chemical Engineering Topics from the Fundamentals to the State of the Art Now in its 85th Anniversary Edition, this industry-standard resource has equipped generations of engineers and chemists with vital information, data, and insights. Thoroughly revised to reflect the latest technological advances and processes, Perry's Chemical Engineers' Handbook, Ninth Edition, provides unsurpassed coverage of every aspect of chemical engineering. You will get comprehensive details on chemical processes, reactor modeling, biological

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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

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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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