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Plant Design and Economics for Chemical Engineers 5th Edition. Plant Design and Economics for Chemical Engineers. 5th Edition. by Max Peters (Author), Klaus Timmerhaus (Author), Ronald West (Author), Max Peters (Author) & 1 more. 4.1 out of 5 stars 13 ratings. ISBN-13: 978-0072392661.

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Max Stone Peters, Klaus D. Timmerhaus, McGraw-Hill, 1991 - Technology & Engineering - 910 pages. 0 Reviews. Intended for a higher level chemical engineering design course, this book brings together all the fundamentals and shows how to put them to use in the real world. This highly regarded text is known for its broad coverage of both design and economics, its attention to the details of cost estimating, its inclusion of up-to-date cost data, and its application of economic and design theory ...

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Plant Design and Economics for Chemical Engineers. by Peters and Timmerhaus. 2. in order to find the cost of each column. Once chart provided the cost of the column itself for a given diameter and height, and another provided the cost per tray for each diameter and type of tray. Towers 1 and 3 used sieve trays, while Tower 2 used valve trays to ...

This new edition contains chapters on process synthesis, computer-aided design and design of chemical reactors. The economic analysis has been updated. Numerous real examples include computer or 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 H420PS 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.

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.

least, the author wishes to thank his constantly helpful wife Maggie and his secretary Pat Weimer; the former for her patience, encouragement, and for acting as a sounding-board, and the latter who toiled endlessly, cheerfully, and most competently on the book's preparation. CONTENTS Preface / iii 1. INTRODUCTION / 1 Frequently Used Economic Studies / 2 Basic Economic Subjects / 3 Priorities / 3 Problems / 6 Appendixes / 6 References / 6 2. EQUIPMENT COST ESTIMATING / 8 Manufacturers' Quotations / 8 Estimating Charts / 10 Size Factoring Exponents / 11 Inflation Cost Indexes / 13 Installation Factor / 16 Module Factor / 18 Estimating Accuracy / 19 Estimating Example / 19 References / 21 3. PLANT COST ESTIMATES / 22 Accuracy and Costs of Estimates / 22 Cost Overruns / 25 Plant Cost Estimating Factors / 26 Equipment Installation / 28 Instrumentation / 30 v vi CONTENTS Piping / 30 Insulation / 30 Electrical / 30 Buildings / 32 Environmental Control / 32 Painting, Fire Protection, Safety Miscellaneous / 32 Yard Improvements / 32 Utilities / 32 Land / 33 Construction and Engineering Expense, Contractor's Fee, Contingency / 33 Total Multiplier / 34 Complete Plant Estimating Charts / 34 Cost per Ton of Product / 35 Capital Ratio (Turnover Ratio) / 35 Factoring Exponents / 37 Plant Modifications / 38 Other Components of Total Capital Investment / 38 Off-Site Facilities / 38 Distribution Facilities / 39 Research and Development, Engineering, Licensing / 40 Working Capital / 40

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.

Cryogenics, a term commonly used to refer to very low temperatures, had its beginning in the latter half of the last century when man learned, for the first time, how to cool objects to a temperature lower than had ever existed na tu rally on the face of the earth. The air we breathe was first liquefied in 1883 by a Polish scientist named Olszewski. Ten years later he and a British scientist, Sir James Dewar, liquefied hydrogen. Helium, the last of the so-caBed permanent gases, was finally liquefied by the Dutch physicist Kamerlingh Onnes in 1908. Thus, by the beginning of the twentieth century the door had been opened to astrange new world of experimentation in which aB substances, except liquid helium, are solids and where the absolute temperature is only a few microdegrees away. However, the point on the temperature scale at which refrigeration in the ordinary sense of the term ends and cryogenics begins has ne ver been weB defined. Most workers in the field have chosen to restrict cryogenics to a tem perature range below -150°C (123 K). This is a reasonable dividing line since the normal boiling points of the more permanent gases, such as helium, hydrogen, neon, nitrogen, oxygen, and air, lie below this temperature, while the more common refrigerants have boiling points that are above this temperature. Cryogenic engineering is concerned with the design and development of low-temperature systems and components.

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