



PLANT DESIGN AND ECONOMICS FOR CHEMICAL ENGINEERS

FOURTH EDITION

MAX S. PETERS

KLAUS D. TIMMERHAUS

Chemical Engineering Economics

Ying Liu



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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 **Plant Design and Economics for Chemical Engineers** Max S. Peters,Klaus D. Timmerhaus,1968 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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Chemical Engineering Economics; 4th Ed ,1959 **Chemical Process Economics** John Happel,Donald G. Jordan,1975 **Plant Design and Economics for Chemical Engineers** Max S. Peters,1948 *Process Engineering Economics* Herbert English Schwyer,1955 *Engineering Economics , Reprints from Chemical Engineering 1973 thru 1974* Watson FA.,1974 Chemical Engineering Economics and Decision Analysis G.S. Davies,1980 **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

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