

## *Plant Design Economics For Chemical Engineers 5th Edition*

*Plant Design and Economics for Chemical Engineers* Plant Design and Economics for Chemical Engineers The Chemical Economy Process Economics Economics and Chemical Engineering Chemical Process Economics Plant Design and Economics for Chemical Engineers [by] Max S. Peters [and] Klaus D. Timmerhaus Chemical Engineering Economics Sources and Production Economics of Chemical Products Process Engineering Economics Economic Evaluation in the Chemical Process Industries The Chemical Economy Manual of Economic Analysis of Chemical Processes The Chemical Economy Chemical Project Economics The Economics of Chemical Industries The Chemical Economy Sources and Production Economics of Chemical Products, 1979-1980 Chemical Engineering Economics. 2. Ed. 5. Impr Chemical Process Economics in Practice Max S. Peters Max S. Peters B. G. Reuben Don W. Green Cleburne Ammen Basore John Happel Max S. Peters D.E. Garrett James Riley Couper Oliver Axtell Bryan G. Reuben Alain Chauvel M. L. Burstall V V Mahajani Edward Henry Hempel Bryan G. Reuben Chemical Engineering Chaplin Tyler J. James Hur

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*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*

*interdisciplinary research textbook on the world chemical industry examines industrial structure of the industry in the uk in other developed countries and in the developing countries and covers manufacturing and production of chemicals and petrochemicals management and marketing problems chemical engineering factors etc graphs references and statistical tables*

*get cutting edge coverage of all chemical engineering topics from fundamentals to the latest computer applications first published in 1934 perry s chemical engineers handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data now updated to reflect the latest technology and processes of the new millennium the eighth edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering from fundamental principles to chemical processes and equipment to new computer applications filled with over 700 detailed illustrations the eighth edition of perry s chemical engineering handbook features comprehensive tables and charts for unit conversion a greatly expanded section on physical and chemical data new to this edition the latest advances in distillation liquid liquid extraction reactor modeling biological processes biochemical and membrane separation processes and chemical plant safety practices with accident case histories inside this updated chemical engineering guide conversion factors and mathematical symbols physical and chemical data mathematics thermodynamics heat and mass transfer fluid and particle dynamics reaction kinetics process control process*

*economics transport and storage of fluids heat transfer equipment psychrometry evaporative cooling and solids drying distillation gas absorption and gas liquid system design liquid liquid extraction operations and equipment adsorption and ion exchange gas solid operations and equipment liquid solid operations and equipment solid solid operations and equipment size reduction and size enlargement handling of bulk solids and packaging of solids and liquids alternative separation processes and many other topics*

*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*

*this reference outlines the fundamental concepts and strategies for economic assessments for informed management decisions in industry the book illustrates how to prepare capital cost and operating expense estimates profitability analyses and feasibility studies and how to execute sensitivity and uncertainty assessments from financial reports to opportunity costs and engineering trade offs process engineering economics considers a wide range of alternatives for profitable investing and for projecting outcomes in various chemical and engineering fields it also explains how to monitor costs finances and economic limitations at every stage of chemical project design preparation and evaluation*

*economic evaluation is necessary in deciding whether to pursue proposed business ventures no business is too small to ignore economic evaluation none too large to override it this book describes how economic evaluations are performed in the chemical processing industries and illustrates them by appropriate examples it stresses methods actually employed in real situations and suggests how results can be interpreted to the extent possible the authors use common business language rather than specialized terms in order that new concepts will be more readily understood by those encountering the subject for the first time*

*this book an introduction to a very dynamic subject of chemical project economics is aimed at students of chemical engineering and practicing engineers it would also be useful to management students for a better appreciation the economics of chemical p*

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