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## ▣EQUIPMENT COSTS▣

▣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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~~Equipment Costs for  
Plant Design and  
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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

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cost of production For  
(CCOP).  
Chemical

~~Estimation of  
production cost and  
revenue process design~~

Chemical engineering is  
a branch of engineering  
which deals with the  
study of design and  
operation of chemical  
plants and methods of  
improving production.

Chemical engineers

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develop economical  
commercial processes to  
convert raw material  
into useful products.

Chemical engineering  
uses principles of  
chemistry, physics,  
mathematics, biology,  
and economics to  
efficiently use, produce,  
design ...

~~Chemical engineering~~  
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By Prof. Debasis Sarkar

IIT Kharagpur. This

course covers two  
important aspects of

Chemical Engineering:

(a) the strategies used in  
the design of chemical  
processes, and (b) the  
basic economic analysis  
of a chemical plant. The  
objective of the course  
is to expose students to  
basic concepts in  
engineering economics,

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plant design, safety  
features and its  
importance to chemical  
engineering.

## Edition

~~Plant Design and  
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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

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of up-to-date cost data,  
and its application of  
economic and design  
theory to real chemical  
engineering processes  
and operations.

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all engineering aspects  
involved in the  
development. of either a  
new, modified, or  
expanded industrial  
plant. In this  
development, the

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chemical engineer will be making economic evaluations of new processes, designing individual pieces of equipment for the proposed new venture, or.

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Chemical Project  
Economics. Introduction

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to Chemical Projects  
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Aspects; Selection of  
the Process and Project  
Site (Part I) ... Design of  
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Packed Towers, Number  
of Plates, Diameter and  
Height of the Column)  
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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  
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vessels -- Design of

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Separation columns  
(distillation, absorption  
and extraction) --

Specification and design  
of solids-handling  
equipment -- Heat  
transfer equipment --  
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fluids.

Chemical Process  
Engineering presents a  
systematic approach to

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solving design problems by listing the needed equations, calculating degrees-of-freedom, developing calculation procedures to generate process specifications- mostly pressures, temperatures, compositions, and flow rates- and sizing equipment. This illustrative reference/text tabulates



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numerous easy-to-follow calculation procedures as well as the relationships needed for sizing commonly used equipment.

The Leading Integrated  
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More than ever, effective design is the focal point of sound chemical engineering.

Analysis, Synthesis, and Design of Chemical Processes, Third Edition, presents design as a creative process that integrates both the big picture and the small details—and knows which to stress when, and why. Realistic from

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This fully updated Third

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Edition presents entirely new problems at the end of every chapter. It also adds extensive coverage of batch process design, including realistic examples of equipment sizing for batch sequencing; batch scheduling for multi-product plants; improving production via intermediate storage and parallel equipment;

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and new optimization  
techniques specifically  
for batch processes.  
Coverage includes  
Conceptualizing and  
analyzing chemical  
processes: flow  
diagrams, tracing,  
process conditions, and  
more Chemical process  
economics: analyzing  
capital and  
manufacturing costs,  
and predicting or

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assessing profitability

Synthesizing and  
optimizing chemical  
processing: experience-  
based principles,

BFD/PFD, simulations,  
and more Analyzing  
process performance via  
I/O models,

performance curves, and  
other tools Process  
troubleshooting and  
[debottlenecking]

Chemical engineering

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design and society:  
ethics, professionalism,  
health, safety, and new  
□green engineering□  
techniques Participating  
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teams Analysis,  
Synthesis, and Design  
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Third Edition, draws on  
nearly 35 years of  
innovative chemical  
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University. It includes suggested curricula for both single-semester and year-long design courses; case studies and design projects with practical applications; and appendixes with current equipment cost data and preliminary design information for eleven chemical processes—including



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seven brand new for this  
edition.

The Fourth Edition of  
Applied Process Design  
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Volume 2 builds upon  
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Ludwig's classic  
chemical engineering  
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to accomplish their  
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topics Extensively

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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

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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



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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

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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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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

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of increasing  
environmental  
awareness; and a  
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includes problems,  
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Process Plant Design  
provides an introduction  
to the basic principles of

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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

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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



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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

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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.

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