

Read Online

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Engineering

Chemical

Economics

Engineering

Economics

Covering detailed discussion of fundamental concepts of economics, the textbook commences with comprehensive explanation of

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theory of consumer behavior, utility maximization and optimal choice, profit function, cost minimization and cost function. The textbook covers methods including present worth method, future worth method, annual worth method, internal rate

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of return method,
explicit re-
investment rate of
return method and
payout method
useful for studying
economic studies. A
chapter on value
engineering
discusses important
topics such as
function analysis
systems techniques,
the value index,

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value measurement techniques, innovative phase and constraints analysis in depth. It facilitates the understanding of the concepts through illustrations and solved problems. This text is the ideal resource for Indian undergraduate

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Economics

engineering students in the fields of mechanical engineering, computer science and engineering and electronics engineering for a course on engineering economics/engineering economy.

Upper-level undergraduate text

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for process design courses in chemical engineering.

Introduces students to the technology & terminology they will encounter in industrial practice.

Presents short-cut techniques for specifying equipment or isolating important elements of a design

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project. Emphasizes project definition, flow sheet development & equipment specification. Covers the economics of process design. End-of-chapter exercises guide students through step-by-step solutions of design problems.

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Includes four case studies from past AIChE competitions. Get Cutting-Edge Coverage of All Chemical Engineering Topics—from Fundamentals to the Latest Computer Applications First published in 1934, Perry's Chemical Engineers'

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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

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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

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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

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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

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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 •

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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

Read Online Chemical Engineering and Liquids • Economics

Separation

Processes • And

Many Other Topics!

"Covers global and domestic competition, marketing strategies, operating expenses, and environmental and safety regulations for chemical

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professionals at all levels. Contains up-to-date mergers and acquisitions of chemical companies."

This book, an introduction to a very dynamic subject of Chemical Project Economics, is aimed at students of Chemical Engineering and

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practicing engineers. It would also be useful to management students for a better appreciation the economics of chemical p

[A Practical Guide
Engineering
Economics for the
21st Century
Design, Integration
and Sustainability](#)

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Engineering
Economics

[Analysis](#)

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[Process Design and](#)

[Economics](#)

[Chemical](#)

[Engineering](#)

[Economics ... Third](#)

[edition](#)

[Process Economics](#)

[Chemical](#)

[Engineering](#)

[Economics ...](#)

[Second edition](#)

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Chemical
Engineering
Chemical
Engineering

Economics. 2. Ed

*Chemical Process
Engineering presents
a systematic approach
to solving design
problems by listing the
needed equations,
calculating degrees-of-
freedom, developing
calculation
procedures to generate*

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Chemical
Engineering
Economics

*process specifications-
mostly pressures,
temperatures,
compositions, and
flow rates- and sizing
equipment. This
illustrative
reference/text
tabulates numerous
easy-to-follow
calculation
procedures as well as
the relationships*

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Economics

*needed for sizing
commonly used
equipment.*

*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*

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Chemical
Engineering
Economics

*process specifications,
and sizing equipment.*

*Containing over thirty
detailed examples of
calculation*

*procedures, the book
tabulates numerous
easy-to-follow
calculation*

*procedures as well as
the relationships
needed for sizing
commonly used*

equipment. "Chemical Process Engineering" emphasizes the evaluation and selection of equipment by considering its mechanical design and encouraging the selection of standard-size equipment offered by manufacturers to lower costs.

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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

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Engineering
*computer use in
design, economic
evaluation and
optimization.*

*As the range of
feedstocks, process
technologies and
products expand,
biorefineries will
become increasingly
complex
manufacturing
systems. Biorefineries*

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Engineering
and Chemical
Economics

*Processes: Design,
Integration and
Sustainability*

*Analysis presents
process modelling and
integration, and
whole system life
cycle analysis tools
for the synthesis,
design, operation and
sustainable
development of*

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Economics

*biorefinery and
chemical processes.*

*Topics covered
include: Introduction:
An introduction to the
concept and
development of
biorefineries. Tools:
Included here are the
methods for detailed
economic and
environmental impact
analyses; combined*

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Economics

*economic value and
environmental impact
analysis; life cycle
assessment (LCA);
multi-criteria
analysis; heat
integration and utility
system design;
mathematical
programming based
optimization and
genetic algorithms.
Process synthesis and*

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design: Focuses on modern unit operations and innovative process flowsheets. Discusses thermochemical and biochemical processing of biomass, production of chemicals and polymers from biomass, and processes for carbon

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Economics

dioxide capture.

Biorefinery systems:

Presents biorefinery

process synthesis

using whole system

analysis. Discusses bio-

oil and algae

biorefineries,

integrated fuel cells

and renewables, and

heterogeneous

catalytic reactors.

Companion website:

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Four case studies, additional exercises and examples are available online, together with three supplementary chapters which address waste and emission minimization, energy storage and control systems, and the optimization and

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Economics

reuse of water. This textbook is designed to bridge a gap between engineering design and sustainability assessment, for advanced students and practicing process designers and engineers.

In today's rapidly changing global economy, business

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managers must have the tools and know-how to quickly evaluate the economic viability of potential solutions to engineering problems. An entire field of study has evolved to meet this need, yet there are few straightforward texts that outline the basics

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Economics
*of engineering
economics.*

*"Fundamentals of
Engineering
Economics" is an
accessible,
comprehensive guide
to the fundamental
principles, concepts,
and methods of
engineering
economics. Utilizing
detailed case studies*

Read Online
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Economics

*and exercises
reflecting current
trends and issues in
economics, this book
introduces students to
a variety of key
concepts, including
estimation of the time
value of money,
evaluation of a single
project, decision
analysis, depreciation
and taxes. This is an*

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Engineering
Economics

*ideal textbook for
Economic Analysis
and Technical
Applications students,
or anyone seeking to
gain an
understanding of the
core concepts of
engineering
economics.*

*"Fundamentals of
Engineering
Economics" is*

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organized into the following topical chapters: - Overview of Engineering Economy - Fixed and Variable Costs - Time Worth of Money - Five Methods for Evaluation of Capital Project - Comparison of Alternates and Decision Analysis - Depreciation and

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Economics

*Replacement Analysis
- Taxes, Tariffs, and
Duties - Public Sector
Initiatives and
Benefit-to-Cost Ratio
- Break-Even Analysis
and Spider Plots Kal
Renganathan Sharma
serves as Adjunct
Professor of
Chemical Engineering
at the Roy G. Perry
College of*

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*Engineering at
Prairie View A&M
University. He
received his B.Tech.
from the Indian
Institute of
Technology (1985,
Chennai, India) and
his MS and Ph.D
degrees from West
Virginia University
(1987, 1990,
Morgantown, WV).*

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All three degrees are in chemical engineering. Dr. Sharma is the author of 10 books, 4 book chapters, 21 journal articles, 528 conference papers and 108 other presentations. He is the recipient of several prestigious honors and awards,

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*including the
Outstanding Student
of the Penultimate
Year from the Rev.
Brothers of St.
Gabriel at RSK
Higher Secondary
School (Trichy, India)
and an Honorary
Fellowship from the
Australian Institute
of High Energetic
Materials*

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Engineering
(Melbourne,
Economics
Australia).

[Volume 3B: Process](#)

[Control](#)

[Chemical Process](#)

[Engineering](#)

[Chemical Engineering](#)

[Economics](#)

[Chemical Engineering](#)

[Economics; 4th Ed](#)

[Design And](#)

[Economics](#)

[The Chemical Process](#)

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Engineering
Industries
Infrastructure

Chemical Engineering
Economics and
Decision Analysis
Engineering
Economics , Reprints
from Chemical
Engineering 1973
thru 1974

least, the
author wishes

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Chemical
Engineering
Economics

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

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Engineering
Economics

latter who
toiled
endlessly,
cheerfully,
and most
competently on
the book's
preparation.

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Revised and updated to reflect major changes in the field, this second edition presents an integrated and balanced view of current

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attitudes and practices used in sound economic decision-making for engineering problems encountered in the oil industry. The volume contains many

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Economics

problem-
solving
examples
demonstrating
how economic
analyses are
applied to
different
facets of the
oil industry.;
Discussion
progresses

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from an
introduction
to the
industry,
through
principles and
techniques of
engineering
economics, to
the
application of
economic

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methods to the oil industry. It provides information on the types of crude oils, their finished products and resources of natural gas, and also summarizes

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Economics

worldwide oil
production and
consumption
data.

Process

Industry

Economics:

Principles,

Concepts and

Applications,

Second

Edition,

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explores the fundamentals of market evaluation, capital and operating cost estimation, and profitability evaluation, along with their

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implications
for process
technology
evaluation,
project
development
and investment
decisions.

Sections cover
time dependent
technology
evolution in

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process
plants,
including
scale
development,
performance
improvement in
new and
operating
plants, and
learning
related to

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Economics

environmental,
safety and
sustainability
assessments.

Influences on
capital
investment
decisions,
including
capacity
planning and
environmental

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Economics

considerations
are explored
and supported
by case
studies.

Finally, the
aspects of
overall
industry
performance
and drivers
are discussed.

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Engineering
Economics

Outlines the
basic
principles of
economic
evaluation
Identifies the
roles of
engineering,
scientific,
commercial and
management
personnel in

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Economics

contributing

to economic

evaluation

Explores the

interaction of

economics with

safety,

environmental

and

sustainability

criteria in

project

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Chemical
Engineering
Economics

evaluation
This book
gives
engineers the
fundamental
theories,
equations, and
computer
programs
(including
source codes)
that provide a

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Engineering
Economics

ready way to
analyze and
solve a wide
range of
process
engineering
problems.
Engineers
often find
themselves
tasked with
the difficult

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Engineering

Economics

challenge of
developing a
design that is
both
technically
and
economically
feasible. A
sharply
focused, how-
to book,
Engineering

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Economics and
Economic
Design for
Process
Engineers
provides the
tools and
methods to
resolve design
and economic
issues. It
helps you

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Economics

integrate
technical and
economic
decision
making,
creating more
profit and
growth for
your
organization.
The book puts
methods that

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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

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feasible projects. He discusses the basic economics of projects – how they are funded, what kinds of investments they require, how revenues,

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Economics

expenses,
profits, and
risks are
interrelated,
and how cash
flows into and
out of a
company. In
the
engineering
economics
section of the

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book, Brown covers topics such as present and future values, annuities, interest rates, inflation, and inflation indices. He details how to

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create order-of-magnitude and study grade estimates for the investments in a project and how to make study grade production cost

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estimates.
Against this
backdrop,
Brown explores
a unique
scheme for
producing an
Economic
Design. He
demonstrates
how using the
Economic

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Economics

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

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Engineering
Economics

being set and
when the
engineer's
impact on
profit is
greatest. The
model
emphasizes
three powerful
new tools that
help you
create a

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Economics

comprehensive
design option
list. When the
model is used
early in a
project, it
can
drastically
lower both
capital and
production
costs. The

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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

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decision
making to
create
economically
optimum
designs and
increase your
impact on
profit and
growth, and,
therefore,
your

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Economics

importance to
your

organization.

Using these

time-tested

techniques,

you can design

processes that

cost less to

build and

operate, and

improve your

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company's
profit.

[Contemporary
Engineering
Economics
Principles,
Practice and
Economics of
Plant and
Process Design
Function and
Economics](#)

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Principles of

Engineering

Economics with

Applications

Chemical

Engineering

Economics. 2.

Ed. 5. Impr

Chemical

Process

Economics

Biorefineries

Read Online
Chemical

Engineering
Economics

and Chemical
Processes
Petroleum
Economics and
Engineering

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

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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.

For courses in engineering and economics

Comprehensively blends

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Engineering
Economics
engineering concepts
with economic theory

Contemporary
Engineering Economics
teaches engineers how to
make smart financial
decisions in an effort to
create economical
products. As design and
manufacturing become
an integral part of
engineers ' work, they
are required to make
more and more decisions

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regarding money. The Sixth Edition helps students think like the 21st century engineer who is able to incorporate elements of science, engineering, design, and economics into his or her products. This text comprehensively integrates economic theory with principles of engineering, helping

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students build sound skills in financial project analysis. Also Available with

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environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them better absorb course material and understand difficult concepts. Students interested in purchasing this title with MyEngineeringLab should ask their instructor for the correct

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Engineering
Economics
package ISBN and
Course ID. Instructors,
contact your Pearson
representative for more
information.

Coulson and
Richardson ' s Chemical
Engineering: Volume 3B:
Process Control, Fourth
Edition, covers reactor
design, flow modeling,
and gas-liquid and gas-
solid reactions and
reactors. Converted from

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textbooks into fully revised reference material

Content ranges from foundational through to technical Added

emerging applications, numerical methods and computational tools

Outlines the concepts of chemical engineering so that non-chemical engineers can interface with and understand basic chemical

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engineering concepts
Overviews the difference between laboratory and industrial scale practice of chemistry, consequences of mistakes, and approaches needed to scale a lab reaction process to an operating scale Covers basics of chemical reaction engineering, mass, energy, and fluid energy balances, how

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economics are scaled,
and the nature of various
types of flow sheets and
how they are developed
vs. time of a project

Details the basics of fluid
flow and transport, how
fluid flow is characterized
and explains the
difference between
positive displacement
and centrifugal pumps
along with their
limitations and safety

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aspects of these differences Reviews the importance and approaches to controlling chemical processes and the safety aspects of controlling chemical processes, Reviews the important chemical engineering design aspects of unit operations including distillation, absorption and stripping,

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adsorption, evaporation
and crystallization,
drying and solids
handling, polymer
manufacture, and the
basics of tank and
agitation system design
Provides a modern
presentation that
eliminates the seven
limitations of past and
present engineering
economics texts:
Contains the

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Engineering
Economics
12-FACTOR Calculator,
an Excel spreadsheet

designed by author to
provide the values of the
12 factors of engineering
economics for arbitrary
values of i , g (), and N
Contains the ANNUAL
and PRESENT WORTH
COMPARISON
Calculators with
Component
Replacements
for comparing equipment

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purchase quotations
Defines quasi-simple
investments and presents
a Step-by-Step
procedure for calculating
their IRRs and balances
Presents a classification of
the four common non-
simple investments and
provides Step-by-Step
procedures for
calculating their IRRs
and balances Compares
the different profitability

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measures for the same investment: pretax IRR, aftertax IRR, aftertax sensitivity analysis, net present value, accounting rate of return, benefit-cost ratio, and payback period

[Chemical Project](#)

[Economics](#)

[Coulson and](#)

[Richardson ' s Chemical](#)

[Engineering](#)

[Chemical Engineering](#)

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Engineering
for Non-Chemical
Engineers

Plant Design and
Economics for Chemical
Engineers

Fundamentals of
Engineering Economics

Chemical Engineering
Economics ... Fourth

edition [of the work by
C. Tyler].

A Guide to Chemical
Engineering Process
Design and Economics

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[Engineering
Economics
Chemical Engineering
Design](#)

Upper-level
undergraduate text
for process design
courses in chemical
engineering.

Introduces students
to the technology
and terminology
they will encounter
in industrial practice.
Presents short-cut

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Engineering
Economics
techniques for
specifying

equipment or
isolating important
elements of a
design project.

Emphasizes project
definition, flow sheet
development and
equipment
specification.

Covers the
economics of

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Economics

process design. End-of-chapter exercises guide students through step-by-step solutions of design problems. Includes four case studies from past AICHE competitions.
Part I: Process design --
Introduction to

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Economics

design -- Process
flowsheet

development --

Utilities and energy

efficient design --

Process simulation

-- Instrumentation

and process control

-- Materials of

construction --

Capital cost

estimating --

Estimating revenues

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Engineering Economics

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

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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

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Economics

equipment --

Transport and
storage of fluids.

This reference
outlines the
fundamental
concepts and
strategies for
economic
assessments for
informed
management
decisions in

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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

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Engineering

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

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Engineering Economics

explains how to monitor costs, finances, and economic limitations at every stage of chemical project design, preparation, and evaluation.

Establish your professional credentials as a registered P.E. with Chemical

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Chemical

Engineering
Economics

Engineering A
Review for the P.E.
Exam The only P.E.
examguide that
conforms to the new
NCEE guidelines! *
Guides you step-by-
step through every
topic covered in
the exam. * Follows
NCEE question
format and subject
emphasis. * Practice

Read Online Chemical Engineering Economics

exercises and problems, problem-solving strategies, and solutions. *

Detailed coverage of thermodynamics, process design, mass transfer, heat transfer, chemical kinetics, fluid flow, and engineering economics.

[Chemical](#)

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Engineering Review
for PE Exam

Process Industry

Economics

Principles, Concepts
and Applications

Engineering

Economics and

Economic Design

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Engineers

Fortran Programs

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