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design, and design of

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feature of the text,

economic analysis,

has been revamped

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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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Economics for ...~~

It is smart to
benchmark a new

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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 cost of production (CCOP).

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~~Estimation of~~ For
~~production cost and~~
~~revenue~~
~~process design~~ 5th
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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

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engineers 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,

Acces PDF Plant Design produce, design...

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Engineering 5th
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By Prof. Debasis
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Kharagpur. This
course covers two
important aspects of
Chemical
Engineering: (a) the
strategies used in the
design of chemical

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

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Fire ranks high on the
list of costly risks to
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involved in the
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either a new,
modified, or
expanded industrial
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chemical engineer
will be making.

economic evaluations

of new processes,

designing individual.

pieces of equipment

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process synthesis,
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design and design of
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analysis has been
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real examples include

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Another strength, equipment sizing and cost estimation, is

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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

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design, economic
evaluation, and
optimization.

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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

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release. This widely
used text is now
more useful than
ever, providing a
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chemical process
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(distillation,
absorption and
extraction) --
Specification and
design of solids-
handling equipment
-- Heat transfer
equipment --
Transport and
storage of fluids.

This book describes
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the fascinating For
wealth of activities as
they occur in the
design, construction
and commissioning
of a chemical plant - a
jigsaw puzzle of the
work of chemical
engineers, chemists,
constructors,
architects, electrical
engineers, process
automation
engineers,

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economists and legal staff. The author first takes the reader through the conceptual phase, in which the economic relevance and environmental impact need to be considered and supplemented by accurate estimates of capital requirements and profitability. This

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phase ends with the choice of an appropriate engineering firm and the conclusion of the contract, after which the reader is guided through all aspects of the implementation phase from the engineering of the chemical plant to commissioning, equipment and

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procurement, the erection phase and the successful test run, after which the new facility is handed over to its owner. The book also illustrates many potential sources of errors by means of examples from practice, and how, aside professional skills,

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teamwork and
communication are
also absolutely
essential to keep
such a complex
project on track.

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expanded as well.
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also reflect changes
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availability.

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manual, which covers
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their components,
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approach to solving
design problems by
listing the needed
equations,
calculating degrees-

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calculation
procedures to
generate process
specifications- mostly
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procedures as well as
the relationships
needed for sizing
commonly used
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introduction to the
basic principles of
plant design and
shows how the

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design can be
blended with
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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

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has been 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

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the production unit. The book follows a fairly 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

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any design function, costing is dealt with early in the book and the principles further developed as 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

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items. This section may prove of particular value to the engineer in industry, especially if he has not the backing of comprehensive technical manuals produced by the larger companies. Finally, an attempt is made to draw together the many

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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.

An Applied Guide to Process and Plant Design, 2nd edition, is a guide to process

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plant design for both students and professional engineers. The book covers plant layout and the use of spreadsheet programs and key drawings produced by professional engineers as aids to design; subjects that are usually learned on the job rather

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than in education. You will learn how to produce smarter plant design through the use of computer tools, including Excel and AutoCAD, “ What If Analysis, statistical tools, and Visual Basic for more complex problems. The book also includes a wealth of selection tables,

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aspects of
professional plant
design which
engineering students
and early-career
engineers tend to
find most
challenging.
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draws on over 20
years ' experience in
process design to
create an essential

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ideal for those who
are new to process
design, compliant

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meets both business
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programs and key
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