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integral part of an
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education and that all
engineers should
have a "practical"
viewpoint, and
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resources that could
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in order to produce
various commodities
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them for

consumption, now or
in the future, ... ”

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mathematics, biology,
and economics to
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economics, previously known as engineering economy, is a subset of economics concerned with the use and "...application of economic principles" in the analysis of engineering decisions.

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However, chemical engineering is a really competitive major in NUS/NTU and you will be expected to do well in it. Economics is also competitive since it attracts the cream of the crop from the humanities department. So, you

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Research in cutting-edge industries, including

including

nanotechnology and

biotechnology, and in

traditional areas of

inquiry depend on

chemical engineers to

decipher molecular

information in order

to develop new

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transport energy, to
transform material,
produce, design and
effective use.

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is a discipline that
was developed out of
those practicing
industrial chemistry
in the late 19th

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industry, depreciation is the loss of value due to "wear and tear" of the components and facilities of the plant. It is important to note that this does not include working capital or land.

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Like all engineers, chemical engineers use math, physics, and economics to solve technical problems. The difference between chemical engineers and other types of engineers is that they apply knowledge of chemistry in addition to other engineering disciplines.

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design, and

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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

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sounding-board, and
the latter who toiled
endlessly, cheerfully,
and most

competently on the
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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

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the latter who toiled
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Part I: Process design
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Utilities and energy
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Materials of

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design problems by

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calculation

procedures as well as
the relationships
needed for sizing
commonly used
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A sharply focused, how-to book,
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Economics and
Economic Design for
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interrelated, and how cash flows into and out of a company. In the engineering economics section of the book, Brown covers topics such as present and future values, annuities, interest rates, inflation, and inflation indices. He details how to create order-of-magnitude and

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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 Model brings increased economic

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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.

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When the model is used early in a project, it can drastically lower both capital and production costs. The 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
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and, therefore, your
importance to your
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