

## Conceptual Design Of Chemical Processes

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Conceptual Design of Chemical Processes (by James M. Douglas) - Free ebook download as PDF File (.pdf) or view presentation slides online.

Textbook for process design decisions

[Conceptual design of chemical processes - James Merrill ...](#)

Conceptual design of chemical processes J. M. Douglas, McGraw-Hill, New York, 1988. pp. xviii + 601, price £ 32.50. ISBN 0-07-017762-7

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Machine derived contents note: Part I A Strategy For Process Synthesis and Analysis --1 The Nature of Process Synthesis and Analysis --2 Engineering Economics --3 Economic Decision Making-Design of a Solvent Recovery System --Part II Developing A Conceptual Design and Finding the Best Flowsheet --4 Input Information and Batch vs. Continuous --5 ...

[Conceptual design of chemical processes \(Book, 1988 ...](#)

The book is quite interesting and based on real life examples on the synthesis of chemical processes. An economic approach to the optimal design is presented subdivided in five distinct steps. The HDA process is analyzed in detail showing how to select the optimal economic layout of the plant.

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Principles of process design in chemical engineering, a special emphasis should be made on what Douglas calls Conceptual Design of Processes [1]. This basic concept implies a systematic search, through succeeding refinements hierarchically ordered, which starts from the simplest solutions and goes on up to the concretion of an entire process diagram.

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Conceptual Design of Chemical Processes James Douglas. This text explains the concepts behind process design. It uses a case study approach, guiding readers through realistic design problems, and referring back to these cases at the end of each chapter. Throughout, the author uses shortcut techniques that allow engineers to obtain the whole ...

[Conceptual design of chemical processes J. M. Douglas ...](#)

Typical chemical process design subproblems might include raw material receiving and storage, feed conditioning, reaction, product isolation, purification, storage, and shipping, and so on.

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Conceptual Design of Chemical Processes. Explaining the concepts behind process design, this book uses a case study approach, guiding readers through realistic design problems, and referring back to these cases at the end of each chapter. It also uses shortcut techniques that help engineers to obtain the whole focus for a design in a very short period (generally less than two days).

[Process design - Wikipedia](#)

Conceptual Design (CD) is a set of disciplines that contribute to the identification of the optimal design layout and nominal operating conditions of industrial processes. In the field of chemical engineering, CD aims at evaluating the best design variables and operating conditions that maximize the profit.

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[Conceptual Design of Chemical Processes \(by James M. Douglas\)](#)

Conceptual design of chemical processes. It uses a case study approach, guiding readers through realistic design problems, and referring back to these cases at the end of each chapter. Throughout, the author uses shortcut techniques that allow engineers to obtain the whole focus for a design in a very short period (generally less than two days).

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Process design. The design starts at a conceptual level and ultimately ends in the form of fabrication and construction plans. Process design is distinct from equipment design, which is closer in spirit to the design of unit operations. Processes often include many unit operations .

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Process Design is the "capstone" course in the chemical engineering curriculum. It used to be divided into Equipment Design and Plant Design. With the publication of Rudd and Watson's "Process Engineering Strategy" in 1968, it was recognized that it's principles can be taught and not "just has to be learned later" by a chemical engineer in his career.

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