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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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principles of process design in chemical

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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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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

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on real life examples on the sinthesys of  
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approach to the optimal design is

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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).

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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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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

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be taught and not "just has to be learned later" by a chemical engineer in his career.

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Conceptual Design (CD) is a set of disciplines that contribute to the identification of the optimal design layout and nominal operating conditions

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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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