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Douglas Conceptual Design Of Chemical

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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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.

Conceptual Design - an overview | ScienceDirect Topics

INTRODUCTION DURING THE TEACHING of elemental prin- ciples of process design in chemical engineering, a special emphasis should be made on what Douglas calls Conceptual Design of Processes.

Spreadsheet use in Conceptual Design of Chemical Processes*

For example, there are three basic levels in Dou- glas' hierarchical procedure for conceptual design-input/output, recy- cle structure, and separation system [Douglas, 1988]. At the input level, production rate, reaction kinetics, etc. are assumed to be given.