

# Douglas Conceptual Design Of Chemical Process Solutions

## DOUGLAS CONCEPTUAL DESIGN OF CHEMICAL PROCESS SOLUTIONS

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Conceptual Design of Chemical Processes (By James M. Douglas) Now we see that first the: reactor product stream is used to partially preheat the feed entering the reactor. Then the hot reactor effluent is used to drive the toluene recycle column reboiler. to preheat some more feed, to unjO:) :IU~~...

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Process synthesis techniques have been successfully applied to the conceptual design of total process flowsheets, as well as to specific design subproblems including heat integration, heat-integrated distillation trains, multiple-effect distillation, and the separation of azeotropic systems.

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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.

### **Spreadsheet use in Conceptual Design of Chemical Processes\***

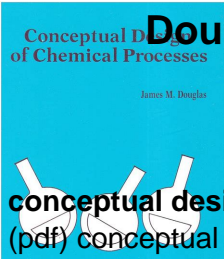
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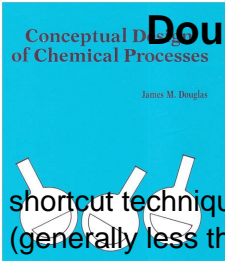
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shortcut techniques that allow engineers to obtain the whole focus for a design in a very short period (generally less than two days).

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design challenge, Douglas developed a hierarchical process synthesis methodology for expeditious and systematic flowsheet generation<sup>1-2</sup>. Although perfected for continuous petrochemical processes, this work confirms the merit of Douglas's<sup>TM</sup> conceptual design procedure for a batch metallurgical synthesis task. Its background is introduced next.

## A tribute to Douglas' conceptual design approach PREVIEW

Prof. Alexandre C. Dimian University of Amsterdam FNWI/HIMS Nieuwe Achtergracht 166 1018 WW Amsterdam The Netherlands Prof. Costin Sorin Bildea ... 3.8.1 Conceptual Design of Reactive Distillation Columns 100 3.9 Summary 101 References 101 4 Reactor/Separation/Recycle Systems 103 4.1 Introduction 103

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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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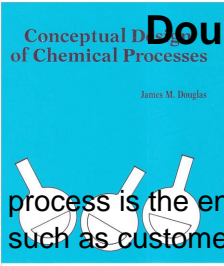
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process is the engineering design process by which aircraft are designed. these depend on many factors such as customer and manufacturer demand, safety protocols, douglas

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The H Of C Design 7 The hierarchical nature of process design has been represented in different ways by different authors. A hierarchy of decisions and a process design ladder' also have been suggested. The synthesis of the correct structure and the optimization of parameters in the design of the reaction and separation systems are

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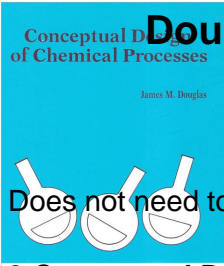
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