

Conceptual Design Of Chemical Processes

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Conceptual Design and Process Synthesis

CONCEPTUAL DESIGN AND PROCESS SYNTHESIS James M Douglas University of Massachusetts Amherst, MA 01003 Jeffrey J Siirola Eastman Chemical Company Kingsport, TN 37662 Abstract Systematic approaches for the invention of conceptual chemical process designs have been proposed and discussed for more than twenty-five years, and have now been de-veloped to the point of ...

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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

Conceptual Design of Chemical Processes

Conceptual Design of Chemical Processes By James M 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 focus for a design in a very short period

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Design and selection of separation processes

available for first conceptual design The main focus in this project was on developing competence and readiness to conduct reliably but rapidly conceptual techno-economic assessments of (bio)chemical production processes The idea was to develop a rapid method and a generic "short-cut" model for evaluation of different alternative separation systems mainly for solid-liquid and liquid

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Chemical Process Design 11 Introduction In a chemical process, the transformation of raw materials into desired products usually cannot be achieved in a single step Instead, the overall transformation is broken down into a number of steps that provide intermediate transformations These are carried out through reaction, separation, mixing, heating, cooling, pressure change, particle size

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Beyond Process Design: The Emergence of a Process ...

[Tirronen and Salmi, 2003] For these new processes or new products, little physical and chemical information is known at the early stage of conceptual design. In fact, in process research and innovation, effective collaboration between chemists and chemical engineers on the concurrent development of chemistry and engineering-

Conceptual Design of Chemical Processes

Conceptual Design of Chemical Processes By James M Douglas
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Systematic tools for the conceptual design of inherently ...

chemical process as a multi-objective problem that seeks simultaneously to minimize the cost and the inherently safer indicators. We would like to emphasize that this work focuses on the early stages of the process design (ie, conceptual design), where if the decisions are also

Conceptual design of metallurgical processes based on ...

Chemical Engineering and Processing 43 (2004) 625-640
 Conceptual design of metallurgical processes based on thermodynamic and economic insights
 Aninda Chakraborty^{a,*}, Karl A Purkarthofer^b, Andreas A Linninger^a
^a Laboratory for Product and Process Design, Department of Chemical Engineering, University of Illinois at Chicago, 810 S, Clinton St, Chicago, IL 60607, USA
^b VOEST-ALPINE

CONCEPTUAL DESIGN OF PROCESSES FOR STRUCTURED PRODUCTS

CONCEPTUAL DESIGN OF PROCESSES FOR STRUCTURED PRODUCTS
 F Michiel Meeuse, Johan Grievink, Peter J T Verheijen
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Current Trends in Conceptual Process Design

Current Trends in Conceptual Process Design
 Sagar B Gadewar
 PDC Process Design Center Inc Santa Barbara, CA 93111
 Email: gadewar@process-design-center.com
 Abstract In recent years there has been a marked shift among the chemical companies away from bulk chemicals and towards high-value low-volume products. This shift has presented a number of challenges in applying the existing tools and