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plants □ Complimentary objectives □ profitable, safe, reliable, flexible, controllable and operable □ Not all of these objectives can be fulfilled however and some trade offs must be made in order to produce a practical design Episode 47 :

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INTRODUCTION DURING THE TEACHING of elemental principles 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* 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. Conceptual Design of Chemical Processes by James Douglas Process Design is the "capstone" course in the chemical engineering curriculum. It used to be divided into Equipment Design and Plant Design. With the

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performance of different potential reaction pathways is evaluated, which can not only help the designers improve the screening efficiency by eliminating inferior reaction alternatives systematically, but also identify the key areas for further improvement in future design, thus reducing the complexity and labor in the following basic engineering design stage. Incorporating Sustainability into the Conceptual Design of ... The conceptual process design can start with defining functions (tasks) and integrating these into a process design containing novel process units. Siirola, Eastman Chemicals Corporation describes his method in general terms with the following functions most common to the chemical process industry. After

the functions have been synthesised.

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