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and shipping, and so  
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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\***

For example, there are three basic levels in Douglas' hierarchical procedure for

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input/output, recy- cle  
structure, and  
separation system  
[Douglas, 1988]. At the  
input level, production  
rate, reaction kinetics,  
etc. are assumed to be  
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