

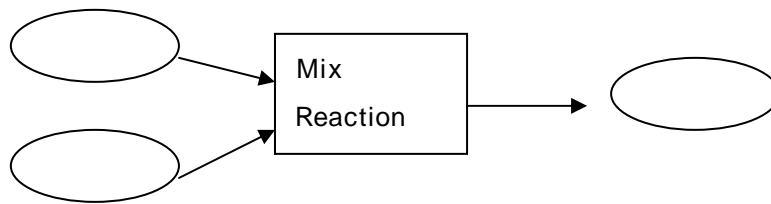
Chapter 1. What Chemical Engineers do for a living?

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Example 1) Commercial Production



Raw Materials

Products

Involved problems

- Reaction (pipe / tank / series of tanks ?)
- How large ?
- Made of what ?
- Supplying or removing heat ?

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→ Chemical Engineering Problem

Example 2) Electricity plant

- Replacement of gas / oil → coal
- Environmental consideration

Example 3) Artificial Kidney ()

- Collaboration with physical
- Flow rate, size, membrane design,

→ Even the medical problem can be solved by chemical engineering approach.