

Process Equipment Design:

INTRODUCTION:

Chemical & Physical Operation.

Process – The steps used to convert RAW material to Product (useful Material).

Chemical Process: Reactors get used to react $A + B \longrightarrow C + D$

Physical process: transferring the product one place to another.

Chemical Process Design: To make the dimensions (length etc.) and the size to attain the process condition.

Flowsheets must satisfy the energy and material balance.

Varying the degree of thoroughness it means if the process is complicated we have to give sufficient thought to analyze it.

Six Step Process Design :

- **Conception and Definition:** What is the product we are going to process? & what condition?
- **Flowsheet Development :** We have to think multiple routes for producing products and selecting one
- **Design the equipment :** It want to satisfy the **economic analysis** (Operating cost and capital cost). It gives the idea how much profit it will make. But it can be possible only after designing the equipment.
- **Economic analysis :**
- **Optimization –** It is the process of Maximize the profit and minimize the losses. The condition where we will get maximum throughput. For ex. – Considering Capital cost & Operating cost = Total cost. Minimizing the total cost is the process of Optimization.
- **Reporting:** We have to prepare all the above parameters and report it.

Nature of Design:

It is the Imagination activity to complete the process Like a way of thinking in different diagonals.

Set Specific objectives

Design Objectives: What will be the raw materials and so on...! It is in the hand of designer what process he have to consider

Process Equipment Design

Ying Liu



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