

# 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

**M Tight**



## **Process Equipment Design:**

This book delves into Process Equipment Design. Process Equipment Design is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Process Equipment Design, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Process Equipment Design
- Chapter 2: Essential Elements of Process Equipment Design
- Chapter 3: Process Equipment Design in Everyday Life
- Chapter 4: Process Equipment Design in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Process Equipment Design. This chapter will explore what Process Equipment Design is, why Process Equipment Design is vital, and how to effectively learn about Process Equipment Design.
3. In chapter 2, the author will delve into the foundational concepts of Process Equipment Design. This chapter will elucidate the essential principles that need to be understood to grasp Process Equipment Design in its entirety.
4. In chapter 3, the author will examine the practical applications of Process Equipment Design in daily life. The third chapter will showcase real-world examples of how Process Equipment Design can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Process Equipment Design in specific contexts. The fourth chapter will explore how Process Equipment Design is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Process Equipment Design. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Process Equipment Design.

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