

# EP 420/EP427 Process Equipment Design

## Chapter 5 – Heat Transfer Equipment Design Part One

**CLO3: Design the storage vessel, heat exchanger and distillation column including the vessel components. (C5, PLO3)**

*Heat exchanger design:*

- *Basic design procedure and theory*
- *Overall heat transfer coefficient*
- *General design consideration*
- *STHX construction details (tube & shell)*
- *Mean temperature difference*
- *Tube side heat transfer coefficient and pressure drop*
- *Shell side heat transfer coefficient and pressure drop*



Mohd Fadhil Majnis



## Heat Transfer Equipment

- The transfer of heat to and from process fluids is an essential part of most chemical processes.
- The word “exchanger” applies to all types of equipment in which heat is exchanged but is often used specifically to denote equipment in which heat is exchanged between two processes streams.



# Heat Transfer Equipment Design

**LP Steffe**



## **Heat Transfer Equipment Design:**

## Whispering the Strategies of Language: An Mental Journey through **Heat Transfer Equipment Design**

In a digitally-driven earth wherever monitors reign great and instant communication drowns out the subtleties of language, the profound techniques and psychological subtleties hidden within words frequently get unheard. Yet, set within the pages of **Heat Transfer Equipment Design** a captivating fictional prize pulsating with fresh feelings, lies a fantastic quest waiting to be undertaken. Penned by a talented wordsmith, that enchanting opus invites readers on an introspective trip, gently unraveling the veiled truths and profound impact resonating within ab muscles cloth of each word. Within the mental depths of the moving review, we will embark upon a heartfelt exploration of the book is primary themes, dissect their fascinating writing fashion, and yield to the strong resonance it evokes strong within the recesses of readers hearts.

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