Process Heat Transfer. Edition No. 2

Description: Process Heat Transfer is a reference on the design and implementation of industrial heat exchangers. It provides the background needed to understand and master the commercial software packages used by professional engineers in the design and analysis of heat exchangers. This book focuses on types of heat exchangers most widely used by industry: shell-and-tube exchangers (including condensers, reboilers and vaporizers), air-cooled heat exchangers and double-pipe (hairpin) exchangers. It provides a substantial introduction to the design of heat exchanger networks using pinch technology, the most efficient strategy used to achieve optimal recovery of heat in industrial processes.

- Utilizes leading commercial software. Get expert HTRI Xchanger Suite guidance, tips and tricks previously available via high cost professional training sessions.
- Details the development of initial configuration for a heat exchanger and how to systematically modify it to obtain an efficient final design.
- Abundant case studies and rules of thumb, along with copious software examples, provide a complete library of reference designs and heuristics for readers to base their own designs on.

Contents:

- Heat Conduction
- Convective and Radiative Heat Transfer
- Heat Exchangers
- Design of Double-Pipe Heat Exchangers
- Design of Shell and Tube Heat Exchangers
- The Delaware Method
- The Stream Analysis Method
- Heat Exchanger Networks
- Boiling Heat Transfer
- Reboilers
- Condensers
- Air-Cooled Heat Exchangers
- Appendix

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