# Process Heat Transfer [EPUB] by G. F. Hewitt

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#### **Information:**

Author: G. F. Hewitt Format: 1072 pages Dimensions: 177.8 x 254mm Publication date: 04 Mar 1994 Publisher: Taylor & Francis Inc Imprint: CRC Press Inc Release location: Bosa Roca, United States

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#### **Plot:**

This book presents comprehensive coverage of both classical and new topics on the subject. Classical aspects discussed include shell-and-tube heat exchangers, double pipe exchangers, reboilers, and condensers. New topics covered include process integration, heat exchanger selection, heat transfer associated with thermodynamic cycles and ohmic heating. The book includes both worked examples and problems at the end of each chapter, and there are sections on the fundamental principles of heat transfer and fluid flwo, in addition to a wealth of material on applied techniques and problems.

### **Recommendations:**

## **Table of contents**

Introduction. Mechanisms of Heat Transfer. Basic Theory of Heat Exchangers. Selection of Heat Exchangers. Double Pipe Heat Exchangers. Shell and Tube Heat Exchangers. Plate Fin Heat Exchangers. Plate and Frame Heat Exchangers. Air Cooled Heat Exchangers. Two-Phase Flow. Boiling Heat Transfer. Heat Exchangers with Vapor Generation. Steam Generators. Reboilers. Evaporators. Condensation. Heat Exchangers with Vapor Condensation. Shell-and-Tube Condensers. Air Cooled Condensers. Condensation in Plate and Frame Plate Fin Heat Exchangers. Direct Contact Heat Transfer. Direct Contact Condensers. Water Cooling Towers. Furnaces. Heat Transfer Associated with Thermodynamic Cycles. Process Integration. Fouling of Heat Exchangers. Enhancement of Heat Transfer. Regenerative Heat Exchangers. Electrical Heating. Heat Transfer in Agitated Vessels. Appendices.