



# Process Heat Transfer: Principles, Applications and Rules of Thumb

By Robert W. Serth, Thomas Lestina



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*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.

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### **Editorial Review**

#### About the Author

Bob taught for more than 30 years in the Department of Chemical and Natural Gas Engineering at Texas A&M University-Kingsville. Prior to that, he was a senior research engineer at Monsanto and taught chemical engineering at the University of Puerto Rico in Mayaguez.

Vice President, Research & Engineering Services, Heat Transfer Research, Inc, TX, USA. Tom Lestina has more than 30 years of engineering and project management experience.

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