



Heat Exchangers: Selection, Rating, and Thermal Design, Third Edition

Sadik Kakaç, Hongtan Liu, Anchasa Pramuanjaroenkij

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Heat exchangers are essential in a wide range of engineering applications, including power plants, automobiles, airplanes, process and chemical industries, and heating, air conditioning and refrigeration systems. Revised and updated with new problem sets and examples, **Heat Exchangers: Selection, Rating, and Thermal Design, Third Edition** presents a systematic treatment of the various types of heat exchangers, focusing on selection, thermal-hydraulic design, and rating.

Topics discussed include:

- Classification of heat exchangers according to different criteria
- Basic design methods for sizing and rating of heat exchangers
- Single-phase forced convection correlations in channels
- Pressure drop and pumping power for heat exchangers and their piping circuit
- Design solutions for heat exchangers subject to fouling
- Double-pipe heat exchanger design methods
- Correlations for the design of two-phase flow heat exchangers
- Thermal design methods and processes for shell-and-tube, compact, and gasketed-plate heat exchangers
- Thermal design of condensers and evaporators

This third edition contains two new chapters. *Micro/Nano Heat Transfer* explores the thermal design fundamentals for microscale heat exchangers and the enhancement heat transfer for applications to heat exchanger design with nanofluids. It also examines single-phase forced convection correlations as well as flow friction factors for microchannel flows for heat transfer and pumping power calculations. *Polymer Heat Exchangers* introduces an alternative design option for applications hindered by the operating limitations of metallic heat exchangers. The appendices provide the thermophysical properties of various fluids.

Each chapter contains examples illustrating thermal design methods and procedures and relevant nomenclature. End-of-chapter problems enable students to test their assimilation of the material.

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