



Heat Exchanger Design Handbook, Second Edition (Mechanical Engineering)

Kuppan Thulukkanam

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Completely revised and updated to reflect current advances in heat exchanger technology, **Heat Exchanger Design Handbook, Second Edition** includes enhanced figures and thermal effectiveness charts, tables, new chapter, and additional topics—all while keeping the qualities that made the first edition a centerpiece of information for practicing engineers, research, engineers, academicians, designers, and manufacturers involved in heat exchange between two or more fluids.

See What's New in the Second Edition:

- Updated information on pressure vessel codes, manufacturer's association standards
- A new chapter on heat exchanger installation, operation, and maintenance practices
- Classification chapter now includes coverage of scrapped surface-, graphite-, coil wound-, microscale-, and printed circuit heat exchangers
- Thorough revision of fabrication of shell and tube heat exchangers, heat transfer augmentation methods, fouling control concepts and inclusion of recent advances in PHEs
- New topics like EMbaffle[®], Helixchanger[®], and Twistedtube[®] heat exchanger, feedwater heater, steam surface condenser, rotary regenerators for HVAC applications, CAB brazing and cupro-braze radiators

Without proper heat exchanger design, efficiency of cooling/heating system of plants and machineries, industrial processes and energy system can be compromised, and energy wasted. This thoroughly revised handbook offers comprehensive coverage of single-phase heat exchangers—selection, thermal design, mechanical design, corrosion and fouling, FIV, material selection and their fabrication issues, fabrication of heat exchangers, operation, and maintenance of heat exchangers—all in one volume.

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