



Heat Exchanger Design Handbook, Second Edition (Mechanical Engineering)

By 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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Editorial Review

Review

"One of the most important strengths I noticed after reading Chapter 1 was the detailed description about the different kinds of heat exchangers. This kind of description is ideal for students and industry professionals. ... Looking at the contents and title, the author has made efforts to cover all aspects of heat exchanger design related to concepts, materials, geometry, fabrication, quality control and maintenance. I found it extremely useful as a design reference guide for industry professionals or course text book for engineering students."

—Rajeev Madazhy, Engineering Manager, Taper-Lok, Sugar Land, Texas, USA

"This book succinctly summarizes the essential information needed for thermal-hydraulic design/rating of heat exchangers. The author has done a most credible job of sifting through the vast body of work in the applied heat transfer literature to produce a lucid reference document."

—Dr. Kris Singh, Chief Technology Officer, Holtec International, Marlton, NJ

About the Author

Thulukkanam Kuppan works for the Indian Railway Service of Mechanical Engineers, and is based in Chennai, India. He is author of the successful *Heat Exchanger Design Handbook, First Edition* published by Marcel-Dekker (now CRC Press) in 2000. Kuppan is a noted authority in the area of heat exchangers, pressure vessels, and railway technologies. He has years of practical experience through his work with the Indian Railways, and is well-known in industry and academia in South Asia.

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Audrey Thompson:

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understandable all the people, so do not worry, you can easy to read it. The book was authored by famous author. The author brings you in the new age of literary works. You can easily read this book because you can please read on your smart phone, or product, so you can read the book throughout anywhere and anytime. In a situation you wish to purchase the e-book, you can open up their official web-site as well as order it. Have a nice study.

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