Heat Exchanger Design Handbook

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Heat Exchanger Design Handbook (Dekker Mechanical Engineering) by Kuppan Thulukkanam (2000-02-23)

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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.

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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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selection and their fabrication issues, fabrication of heat exchangers, operation, and maintenance of heat exchangers —all in one volume.

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Comprehensive and unique source integrates the material usually distributed among a half a dozen sources. * Presents a unified approach to modeling of new designs and develops the skills for complex engineering analysis. * Provides industrial insight to the applications of the basic theory developed.

Heat Exchanger Design Guide: A Practical Guide for Planning, Selecting and Designing of Shell and Tube Exchangers takes users on a step-by-step guide to the design of heat exchangers in daily practice, showing how to determine the effective driving temperature difference for heat transfer. Users will learn how to calculate heat transfer coefficients for convective heat transfer, condensing, and evaporating using simple equations. Dew and bubble points and lines are covered, with all calculations supported with examples. This practical guide is designed to help engineers solve typical problems they might encounter in their day-to-day work, and will also serve as a useful reference for students learning about the field. The book is extensively illustrated with figures in support of the text and includes calculation examples to ensure users are fully equipped to select, design, and operate heat exchangers. Covers design method and practical correlations needed to design practical heat exchangers for process application Includes geometrical calculations for the tube and shell side, also covering boiling and condensation heat transfer Explores heat transfer coefficients and temperature differences Designed to help engineers solve typical problems they might encounter in their day-to-day work, but also ideal as a useful reference for students learning about the field

The Heat Exchanger Design Handbook (HEDH) was first launched in 1983. Since then, it has been continuously updated and now, after two decades and in more than double its original size, remains the standard reference source for design and other information on heat transfer, heat exchangers, and associated technologies. Currently, HEDH contains more then 6,000 pages of technical information compiled and edited by the world's foremost specialists and is presented in five parts dealing respectively with: Heat exchanger theory; Fluid mechanics and heat transfer; Thermal and hydraulic design of heat exchangers; Mechanical design of heat exchangers; Physical properties.

The motion of fluids is never in parallel- or counter-flow in heat exchangers and tube banks, leading to complexities in the equations for calculating their transferred heat and temperatures. This review of the topic includes 70 design and verification tables.