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Heat Exchangers: Selection, Rating, and Thermal Design written by Sadik Kakac, Hongtan Liu and Anchasa Pramuanjaroenkij is very useful for Mechanical Engineering (MECH) students and also who are all having an interest to develop their knowledge in the field of Design, Automobile, Production, Thermal Engineering as well as all the works related to Mechanical field. This Book provides an clear examples on each and every topics covered in the contents of the book to provide an every user those ...

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(PDF) Fundamentals of Heat Exchangers

5.3 Heat Exchanger Design Methods The goal of heat exchanger design is to relate the inlet and outlet temperatures, the overall heat transfer coefficient, and the geometry of the heat exchanger, to the rate of heat transfer between the two fluids. The two most common heat exchanger design problems are those of rating and sizing.

Chapter 5 Heat Exchangers

The Fourth Edition is designed for courses/modules in process heat transfer, thermal systems design, and heat exchanger technology. This text includes full coverage of all widely used heat exchanger types. A complete solutions manual and figure slides of the text's illustrations are available for qualified adopting instructors.

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The correlation of Kakac et al ... The solution heat transfer coefficient values were obtained from 0.9 to 1.8 kW·m⁻²·K⁻¹ under transition conditions and from 0.96 to 3.16 kW·m⁻²·K⁻¹ ...

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The basic heat exchanger design equation can be used for a variety of types of heat exchangers, like double pipe heat exchangers or shell and tube heat exchangers. It can be used for counterflow or parallel flow. ...
Kakac, S. and Liu, H., Heat Exchangers: Selection, Rating and Thermal Design, CRC Press, 2002. 3.

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The choice of a heat exchanger is determined by many criteria: the fluids involved (liquid/liquid, liquid/vapor, gas/gas, etc.) and their nature (clean, fouling, viscous, corrosive, etc.), the temperatures (temperature pinch, temperature difference, temperature cross, thermal exchange coefficient, etc.), the pressures involved (maximum service pressure and design pressure, acceptable loss of ...

Heat exchanger thermal exchange : frequently asked questions

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