

Compact Heat Exchangers Kays And

Synopsis This text compiles experimental data on the basic heat transfer and flow friction characteristics of "compact" heat exchangers. The data can be applied to space heating, spacecraft heat exchangers, aircraft heat exchangers and various cooling systems.

Compact Heat Exchangers: Amazon.co.uk: W.M. Kays, A.L ...

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Compact Heat Exchangers - William Morrow Kays, Alexander ...

Compact Heat Exchangers is a compilation of experimental data on the basic heat transfer and flow friction characteristics of "compact" heat exchanger surfaces, i.e., surfaces with the characteristic of large area per unit of volume, used primarily in gas-flow applications where large surface area is a necessity.

Compact Heat Exchangers | W. M. Kays, A. L. London - b-ok.org

As a chemical engineer I've had limited use for this book. Kays addresses an area of heat exchangers used in aerospace, semi-conductors and other industries where small coolers or heaters are needed.

Compact Heat Exchangers by W. M. Kays (1998-01-01 ...

Compact Heat Exchangers: Selection, Design, and Operation, Second Edition, is fully revised to present the most recent and fundamental ideas and industrial concepts in compact heat exchanger technology. This complete reference compiles all aspects of theory, design rules, operational issues, and the most recent developments and technological advancements in compact heat exchangers.

Compact Heat Exchangers | ScienceDirect

Compact Heat Exchangers: Selection, Design, and Operation, Second Edition, is fully revised to present the most recent and fundamental ideas and industrial concepts in compact heat exchanger technology.

Compact Heat Exchangers - 2nd Edition - Elsevier

A history of compact heat exchangers is presented, along with recent advances in Japan, other developments in the field, and a review of boiling, condensing, and other aspects of two-phase flow in plate-fin heat exchangers. Specific attention is devoted to prediction of heat and water vapor exchanger performance, wound parallel plate exchangers for air-conditioning applications, a new plate ...

Compact heat exchangers (Book) | OSTI.GOV

Compact Heat Exchangers is a compilation of experimental data on the basic heat transfer and flow friction characteristics of "compact" heat exchanger surfaces, i.e., surfaces with the characteristic of large area per unit of volume, used primarily in gas-flow applications where large surface area is a necessity.

Amazon.com: Compact Heat Exchangers (9781575240602): W. M ...

The Kays & London model was introduced in 1984 to calculate the overall heat exchanger performance of so-called compact heat exchangers [12]. The authors recommended the use of the Colburn factor ...

Compact heat exchangers. Third Edition. - ResearchGate

Chapter 5 Compact Heat Exchangers (Part III) 5.8 Plate-Fin Heat Exchangers Plate-fin exchangers have various geometries of fins to compensate the high thermal resistance by increasing the heat transfer area particularly if one of fluids is air or gas. This type of exchanger has corrugated fins sandwiched between parallel plates or formed tubes. The plate fins are categorized as triangular fin

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Chapter 5 Compact Heat Exchangers (Part III)

Compact heat exchangers (CHEs), having light weight, minimum volume and high effectiveness, have played a major technological role in the advancement of the transportation industry.

Compact Heat Exchangers Design for the Process Industry

so compact heat exchangers can be of appreciable size. 'Compact' more accurately refers to the higher duties that are achieved in smaller sizes than (say) shell and tube heat exchangers. This compactness is achievable through higher surface densities (i.e. heat transfer surface area per unit volume of heat exchanger), and through enhancement of heat transfer coefficients by selection of

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Design Considerations for Compact Heat Exchangers

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This text compiles experimental data on the basic heat transfer and flow friction characteristics of ""compact"" heat exchangers. The data can be applied to space heating, spacecraft heat exchangers, aircraft heat exchangers and various cooling systems.

Compact heat exchangers (Book, 1998) [WorldCat.org]

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