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@article{osti_6132549, title = {Compact heat exchangers}, author = {Kays, W M and London, A L}, abstractNote = {This third edition is an update of the second edition published in 1964. New data and more modern theoretical solutions for flow in the simple geometries are included, although this edition does not differ radically from the second edition.

Compact heat exchangers (Book) | OSTI.GOV
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compact heat exchangers kays and Kays addresses an area of heat exchangers used in aerospace, semi-conductors and other industries where small coolers or heaters are needed. I remember first hearing about this book back in the early 80's, while living in California, so it has been in print for a while; the first printing was 1955.

[Book] Compact Heat Exchangers Kays
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Compact heat exchangers by W. M. Kays, 1998, Krieger Pub. Co. edition, in English - Repr. ed. 1998 with corrections.

Compact heat exchangers (1998 edition) | Open Library
Historically, the development and application of compact heat exchangers and their surfaces has taken place in a piecemeal fashion in a number of rather unrelated areas, principally those of the automotive and prime mover, aerospace, cryogenic and refrigeration sectors.

Compact Heat Exchangers | ScienceDirect
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Plate-fin heat exchangers are generally designed for moderate operating pressures less than 700 kPa (gauge pressure) and have been built with a surface area density of up to 5900 m2/m3. Common fin thickness ranges between 0.05 and 0.25 mm. Fin heights may range from 2 to 25 mm.

Chapter 5 Compact Heat Exchangers (Part III)
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 - 2nd Edition
COMPACT HEAT EXCHANGERS heat exchangers for carbon dioxide cooling, the air fins allow us to increase the heat transfer surface, while the separating walls in the generic flat tube simply allow us to identify the mini/micro channels (see Fig. 3.2b). In this case, the fin surface is mainly responsible for the whole device performance.

Chapter 3 Compact heat exchangers - polito.it
Compact Heat Exchangers William Kays and A.L. London Published by McGraw Hill Book Company Inc, New York, San Francisco, London,Toronto (1964)

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Nowadays compact heat exchangers are widely used some examples are vehicular heat exchangers, condensers and evaporators in air-conditioning and refrigeration industry, aircraft oil coolers, automotive radiators, oil coolers, unit air heaters, intercoolers of compressors, and aircraft and space applications also used in cryogenics process, electronics, energy recovery, conservation and conversion

What is a compact heat exchanger and what do we use it for?
The gas-to-liquid heat exchangers are said to be compact heat exchangers if they have a high surface area density above 700 m 2 /m 3 on the air-side; human lungs are the best example to represent one of the most compact heat exchangers, having an area density of about 17,500 m 2 /m 3. Different types of compact heat exchangers, which are augmented by heat transfer surfaces including plain-fins, wavy-fins, offset strip-fins, louver-fins, and fin-tubes, are made of different materials such as ...

Compact and microchannel heat exchangers: A comprehensive ...
Kays & London ' s Compact Heat Exchangers [1] contains measured heat transfer and pressure drop data on a variety of circular and rectangular passages including circular tubes, tube banks, straight fins, louvered fins, strip or lanced offset fins, wavy fins and pin fins. While this book is the benchmark for air cooled heat exchanger test data, it makes no attempt to summarize the results or steer the thermal designer to an optimized design based on the different factors or combination of ...

Air Cooled Compact Heat Exchanger Design For Electronics ...
Compact Heat Exchangers (3rd Edition) Details This book 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.