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Compact Heat Exchangers - Semantic Scholar

Compact Heat Exchangers W M Kays, A L London Compact Heat Exchangers W M Kays, A L London 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

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Chapter 5 Compact Heat Exchangers (Part III)

109 Chapter 5 Compact Heat Exchangers (Part III) 58 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

DESIGN AND EVALUATION OF COMPACT HEAT EXCHANGERS ...

DESIGN AND EVALUATION OF COMPACT HEAT EXCHANGERS FOR HYBRID FUEL CELL AND GAS TURBINE SYSTEMS by Joel David Lindstrom A thesis submitted in partial fulfillment of the requirements for the degree of Master of Science in Mechanical Engineering MONTANA STATE UNIVERSITY Bozeman, Montana April 2005

Design Considerations for Compact Heat Exchangers

compact heat exchangers capable of meeting the mechanical challenges posed by the need for improved cycle efficiencies Heatric offers a range of diffusion bonded compact heat exchangers to meet these challenges, each custom-designed and engineered by Heatric's dedicated Nuclear

Plate Heat Exchangers as a Compact Design ...

Plate Heat Exchangers as a Compact Design and Optimization B-51 3 Results As shown in Table III, hot water outlet temperature, cold water outlet temperature, amount of heat transfer,

Chapter 5 HSL - Western Michigan University

Termed compact heat exchangers, these devices have dense arrays of finned tubes or plates and are typically used when at least one of the fluids is a gas, and is hence characterized by a small convection coefficient Plate heat exchangers, finned-tube heat exchangers and plate-fin heat exchangers are the class of compact heat exchangers

Chapter 3 Compact heat exchangers - polito.it

Compact heat exchangers 31 Relevance of mini/micro channel compact heat exchangers In the previous chapter, it has been pointed out that the thermal rejection process due to gas cooler plays a fundamental role in determining the performances of the carbon dioxide transcritical cycle As it is evident in the numerical simulations com-

EFFECTIVENESS-NTU COMPUTATION WITH A ...

EFFECTIVENESS-NTU COMPUTATION WITH A MATHEMATICAL MODEL FOR CROSS-FLOW HEAT EXCHANGERS For compact heat exchangers the mechanism of heat transfer and pressure drop is fairly complex, and as a result, (Kays and London, 1998) with the air side characterized by the

Review of Literature on Heat Transfer Enhancement in ...

REVIEW OF LITERATURE ON HEAT TRANSFER ENHANCEMENT IN COMPACT HEAT EXCHANGERS written by Kevin Stone under supervision of Prof S Pratap Vanka ABSTRACT This paper features a broad discussion on the application of enhanced heat transfer surfaces to compact heat exchangers The motivation for heat transfer enhancement is discussed, and the

Evaluation of Compact Heat Exchanger Technologies for ...

Compact heat exchangers offer the ability to transfer heat between large volumes of gas with minimum footprint The degree to which an exchanger is considered compact can be characterized by the compactness parameter () A gas to fluid exchanger is considered ...

Pressure Losses for Fluid Flow Through Abrupt Area ...

Pressure Losses for Fluid Flow Through Abrupt Area Contraction in Compact Heat Exchangers June 11, 2004 2 Introduction The goal of this experiment was to predict and improve on the results of Kays and London "entrance pressure-loss coefficient (K_c) for create the desired symmetry to simulate the heat exchangers flow area

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Optimisation of Plate/Plate-Fin Heat Exchanger Design

exchangers include plate heat exchangers and plate-fin heat exchangers (Kays and London, 1984) These compact heat exchangers are characterised by: Small minimum approach temperature: Compared with 10-20 °C in the shell and tube heat exchanger, the minimum approach temperature in the compact heat exchangers can be as low as 2-5 °C, which

US 84481801 A 20010427 W. M. KAYS, A. L. LONDON: ...

A number of compact, high-efficiency thermoelectric system utilizing the advantages of thermal isolation in the direction of a working medium flow or movement, in manufacturable systems, are described Such configurations exhibit high system efficiency and power density Several different

Appendix C: Heat Exchanger Design - Wiley Online Library

Appendix C Heat Exchanger Design Table C1 Representative values of the overall heat transfer coefficients (US) Type of Heat Exchanger U (Btu/(h ft² F)) Water-to-water 150-300

DEFENSE DOCUMENTATION CENTER

Compact Heat-Exchanger Study We are pleased to submit this final technical report on our study of compact heat exchangers The objective of the program has been to establish design goals for a compact heat-exchanger development program The study has been more technical in nature than that implied in the purchase request

compact Heat Exchangers for Electronics Cooling

Kays, W, London, A, Compact Heat Exchangers, Third Marthinuss J., Hall G, Air Cooled Compact Heat Exchanger | Thermal analysis decrease the power required to circulate the coolant, boiling heat transfer is employed in heat exchangers In such devices, a refrigerant coolant vaporizes after it absorbs the heat from a hot source

CHAPTER 17 HEAT EXCHANGERS - razifar.com

CHAPTER 17 HEAT EXCHANGERS R K Shah* and D R Sekulib University of Kentucky INTRODUCTION A heat exchanger is a device that is used for transfer of thermal energy (enthalpy) between two or more fluids, between a solid surface and a fluid, or between solid particulates and a