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Science, Arts & Lithuania. 1992

Advances in Thermal Design of Heat Exchangers

The primary objective in any engineering design process has to be the elimination of uncertainties. In thermal design of heat exchangers there are presently many steps in which assumptions in mathematical solution of the design problem are being made. Accumulation of these assumptions may introduce variations in design. The designer needs to understand where these inaccuracies may arise, and strive to eliminate as many sources of error as possible by choosing design configurations that avoid such problems at source. In this exciting text, the author adopts a numerical approach to the thermal design of heat exchangers, extending the theory of performance evaluation to the point where computer software may be written. The first few chapters are intended to provide a development from undergraduate studies regarding the fundamentals of heat exchanger technology and the concepts of direct sizing. Later chapters on transient response of heat exchangers and on the related single-blown method of obtaining experimental results should also interest the practicing engineer. Theory is explained simply, with the intention that readers can develop their own approach to the solution of particular problems. This book is an indispensable reference text for higher level (post-graduate) students and practicing engineers. It includes a dozen sources. This book is unique in adopting a numerical approach to the thermal design of heat exchangers.

American Book Publishing Record. 1990

Whitaker's Book List. 1991

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Energy. 1983 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports (STAR) and International aerospace abstracts (IAA).

Two-Phase Flow Heat Exchangers: Sanjit Kaka 2012-06-02 Two-phase flow heat exchangers are vital components of systems for power generation, chemical processing, and thermal environment control. The art and science of the design of such heat exchangers have advanced considerably in recent years. This is due to better understanding of the fundamentals of two-phase flow and heat transfer in simple geometries, greater appreciation of these processes in complex geometries, and enhanced predictive capability through use of complex computer codes. The subject is clearly of great fundamental and practical importance. The NATO ASI "Thermal-Hydraulic Fundamentals and Design of Two-Phase Flow Heat Exchangers" was held in Porto, Portugal, July 6-17, 1987, participating in the organization of the ASI were the Department of Mechanical Engineering and the Clean Energy Research Institute, University of Miami, Universidade do Porto, and the Department of Mechanical Engineering, Aeronautical Ingoring, and Mathematics, Rensselaer Polytechnic Institute. The ASI was arranged primarily as a high-level teaching activity by experts representing both academic and industrial viewpoints. The program included the presentation of invited lectures, a limited number of related technical papers and discussion sessions.

Conference Papers Index. Monthly. Papers presented at recent meetings held all over the world by scientific, technical, engineering and medical groups. Sources are meeting programs and abstract publications, as well as questionnaires. Arranged under 17 subject sections, 7 of direct interest to the life scientist. Full programs of meetings listed under sections. Entry gives citation number, paper title, name, mailing address, and any ordering number assigned. Quarterly and annual indexes to subjects, authors, and programs (not available in monthly issues).

Aeronautical Engineering. 1993 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports (STAR) and International aerospace abstracts (IAA).

Comprehensive Dissertation Index. 1984

Aeronautical Engineering: A Cumulative Index to a Continuing Bibliography (supplement 287). 1993

Theoretical Chemical Engineering Abstracts. 1984

Dissertation Abstracts International. 2007

Advances in Heat Exchangers: Laura Castro Gómez 2019-02-20 Heat exchangers are important devices for engineering, research, and industry. Because of this, any improvement helps to optimize the whole process. Opportunity areas may be found in design, materials, or working fluids. In this sense, the present book compiles some advances in the matter of design (three chapters) and working fluids (one chapter). An introductory chapter also is presented.

Government reports annual index. 1997


NASA SP. 1962

The book discusses the need for turbine cooling, gas turbine heat-transfer problems, and cooling methodology and covers turbine rotor and stator heat-transfer issues, including endwall and blade tip regions under engine conditions, as well as under simulated engine conditions. It then examines turbine rotor and stator blade film cooling and discusses the unsteady high free-stream turbulence effect on simulated cascade airfoils. From here, the book explores impingement cooling, rib-turbulent cooling, pin-fin cooling, and compound and new cooling techniques. It also highlights the effect of rotation on rotor coolant passage heat transfer. Coverage of experimental methods includes heat-transfer and mass-transfer techniques, liquid crystal thermography, optical techniques, as well as flow and thermal measurement techniques. The book concludes with discussions of governing equations and turbulence models and their applications for predicting turbine blade heat transfer and film cooling, and turbine blade internal cooling.