

Andrej Kitanovski, Jaka Tušek, Urban Tomc, Uroš Plaznik, Marko Ožbolt, Alojz Poredoš

Heat Transfer and Fluid Flow in Minichannels and Microchannels Satish Kandlikar, Srinivas Garimella, Dongging Li, Stephane Colin, Michael R. King, 2013-10-25 Heat exchangers with minichannel and microchannel flow passages are becoming increasingly popular due to their ability to remove large heat fluxes under single phase and two phase applications Heat Transfer and Fluid Flow in Minichannels and Microchannels methodically covers gas liquid and electrokinetic flows as well as flow boiling and condensation in minichannel and microchannel applications Examining biomedical applications as well the book is an ideal reference for anyone involved in the design processes of microchannel flow passages in a heat exchanger Each chapter is accompanied by a real life case study New edition of the first book that solely deals with heat and fluid flow in minichannels and microchannels Presents findings that are directly useful to designers researchers can use the information in developing new models or identifying research needs **Heat Transfer and Fluid Flow in Minichannels** and Microchannels Satish Kandlikar, Srinivas Garimella, Dongging Li, Stephane Colin, Michael R. King, 2005-11-18 Heat exchangers with minichannel and microchannel flow passages are becoming increasingly popular because of their ability to remove large heat fluxes under single phase and two phase applications Heat Transfer and Fluid Flow in Minichannels and Microchannels serves as a sourcebook for those individuals involved in the design processes of microchannel flow passages in a heat exchanger This book manages to present its findings in a manner that is directly useful to a designer while a researcher is able to use the information in developing new models or in identifying research needs Each chapter is accompanied by a real life case study First book published solely dealing with heat and fluid flow in minichannels and Handbook for Transversely Finned Tube Heat Exchanger Design Eugene Pis'mennyi, Georgiy microchannels Polupan, Ignacio Carvajal-Mariscal, Florencio Sanchez-Silva, Igor Pioro, 2016-05-06 Handbook for Transversely Finned Tubes Heat Exchangers Design contains detailed experimental data correlations and design methods for designing and improving the performance of finned tube heat exchangers It covers the three main types circular finned square finned and helical finned tube bundles Based on extensive experimental studies and tested at leading design and research institutions this handbook provides an extensive set of materials for calculating and designing convective surfaces from transversely finned tubes with a particular emphasis on power plant applications Provides a design manual for calculating heat transfer and aerodynamic resistance of convective heating surfaces fabricated in the form of tube bundles with transverse circular square and helical fins Presents calculations for finned surfaces operating under conditions of clean and dust laden flows alike including finned convective heating surfaces of boilers Includes a fully solved exercise at the end of the book illustrating the top down approach specially oriented to power plant heat exchangers Boiling Yasuo Koizumi, Masahiro Shoji, Masanori Monde, Yasuyuki Takata, Niro Nagai, 2017-06-22 Boiling Research and Advances presents the latest developments and improvements in the technologies instrumentation and equipment surrounding boiling Presented by the Japan Society of

Mechanical Engineers the book takes a holistic approach first providing principles and then numerous practical applications that consider size scales Through six chapters the book covers contributed sections from knowledgeable specialists on various topics ranging from outlining boiling phenomena and heat transfer characteristics to the numerical simulation of liquid gas two phase flow It summarizes in a single volume the state of the art in boiling heat transfer and provides a valuable resource for thermal engineers and practitioners working in the thermal sciences and thermal engineering Explores the most recent advancements in boiling research and technology from the last twenty years Provides section content written by contributing experts in their respective research areas Shares research being conducted and advancements being made on boiling and heat transfer in Japan one of the major research hubs in this field Heat Exchangers Jovan Mitrovic, 2012-03-09 Selecting and bringing together matter provided by specialists this project offers comprehensive information on particular cases of heat exchangers The selection was guided by actual and future demands of applied research and industry mainly focusing on the efficient use and conversion energy in changing environment Beside the questions of thermodynamic basics the book addresses several important issues such as conceptions design operations fouling and cleaning of heat exchangers It includes also storage of thermal energy and geothermal energy use directly or by application of heat pumps The contributions are thematically grouped in sections and the content of each section is introduced by summarising the main objectives of the encompassed chapters The book is not necessarily intended to be an elementary source of the knowledge in the area it covers but rather a mentor while pursuing detailed solutions of specific technical problems which face engineers and technicians engaged in research and development in the fields of heat transfer and heat exchangers 30th European Symposium on Computer Aided Chemical Engineering Sauro Pierucci, Flavio Manenti, Giulia Luisa Bozzano, Davide Manca, 2020-10-23 30th European Symposium on Computer Aided Chemical Engineering Volume 47 contains the papers presented at the 30th European Symposium of Computer Aided Process Engineering ESCAPE event held in Milan Italy May 24 27 2020 It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries Presents findings and discussions from the 30th European Symposium of Computer Aided Process Engineering ESCAPE event Offers a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants Carnot Cycle and Heat Engine Fundamentals and Applications Michel Feidt, 2020-07-03 This book for chemical industries results from a Special Issue related to the latest progress in the thermodynamics of machines systems and processes since the premonitory work of Carnot Carnot invented his famous cycle and generalized the efficiency concept for thermo mechanical engines Since that time research progressed from the equilibrium approach to the irreversible situation that represents the general case This book illustrates the present state of the art advances after one or two centuries of consideration regarding applications and fundamental aspects The research is moving fast in the direction of economic and

environmental aspects This will probably continue during the coming years This book mainly highlights the recent focus on the maximum power of engines as well as the corresponding first law efficiency upper bounds Advances in Thermal Sciences Vivek Kumar Singh, Gautam Choubey, S. Suresh, 2022-11-09 This book presents select peer reviewed proceedings of the International Conference on Futuristic Advancements in Materials Manufacturing and Thermal Sciences ICFAMMT 2022 The book provides an overview of the latest research in the area of thermal sciences such as computational and numerical methods in fluid flow and heat transfer advanced energy systems optimization of thermal systems technologies for space and aerospace applications supersonic combustion two phase multiphase flows The book will be useful for researchers and professionals working in the field of thermal sciences Microfluidics and Microscale Transport Processes Suman Chakraborty, 2012-10-04 The advancements in micro and nano fabrication techniques especially in the last couple of decades have led research communities over the world to invest unprecedented levels of attention on the science and technology of micro and nano scale devices and the concerned applications With an intense focus on micro and nanotechnology from a fluidic perspective Microfluidics and Microscale Transport Processes provides a broad review of advances in this field A comprehensive compendium of key indicators to recent developments in some very active research topics in microscale transport processes it supplies an optimal balance between discussions of concrete applications and development of fundamental understanding The chapters discuss a wide range of issues in the sub domains of capillary transport fluidic resistance electrokinetics substrate modification rotational microfluidics and the applications of the phenomena of these sub domains in diverse situations ranging from non biological to biological ones like DNA hybridization and cellular biomicrofluidics. The book also addresses a generic problem of particle transport in nanoscale colloidal suspensions and includes a chapter on Lattice Boltzmann methods for phase changing problems which represents a generic particle based approach that may be useful to address many microfluidic problems of interdisciplinary relevance Phase Separation in Two-phase Microfluidic Heat Exchangers Milnes P. David, 2011 Two phase microfluidic heat exchangers have the potential to meet the large heat dissipation demands of high power electronics and computing systems Two phase cooling systems face practical challenges brought on by the growth and advection of the vapor phase in the confined geometries which lead to large pressure drops increased thermal resistance and the formation of detrimental flow instabilities One proposed solution to these issues is phase separation whereby the vapor is locally separated from the two phase flow through a porous hydrophobic membrane This dissertation describes a series of studies conducted to develop an understanding of the factors that influence vapor separation and its impact on the hydraulic and thermal characteristics of two phase heat exchangers Flow phenomena are a critical component in developing this understanding of phase separation High speed visualization of adiabatic and diabatic vaporizing flows was carried out in a single 124 Mu m by 98 Mu m copper microchannel with a 65 Mu m thick 220nm pore diameter hydrophobic PTFE membrane wall During adiabatic air water flow wavy stratified and

stratified flow dominated lower liquid velocities while plug and annular type flows dominated at the higher velocities Analysis found that air removal could be improved by increasing the venting area increasing the trans membrane pressure or using thinner high permeability membranes Diabatic water vapor experiments with mass flux velocities of 140 and 340 kg s m2 and exit qualities up to 20% found that stratified type flows dominate at lower mass fluxes while cyclical churn annular flow became more prevalent at the higher mass flux and quality The observed flow regimes are hypothesized to play a significant role in determining the pressure drop and heat transfer coefficient during flow boiling To study the impact of various geometric and membrane factors on the performance of a phase separating microchannel heat exchanger dissipating 100W of heat a numerical model incorporating vapor separation and transport during two phase flow boiling in a microchannel was developed The impact of substrate thermal conductivity and thickness membrane permeability and thickness liquid channel density liquid and vent channel diameter and vent to liquid channel diameter ratio was studied and compared for a standard non venting heat exchanger a vapor venting heat exchanger and a non venting heat exchanger occupying the same increased volume as the venting heat exchanger The numerical study found that the venting heat exchanger had improved pressure drop and device temperatures for all tested conditions when compared against a standard heat exchanger but only under very limited conditions when compared against the volumetrically equivalent non venting heat exchanger The study indicates that the best venting heat exchanger performance is achieved when the membrane conductance is of the same order or higher than that of the microchannel this can be achieved through the use of thin high permeability membranes coupled with small hydraulic diameter microchannels Finally a study was conducted to explore the fabrication methods to build a vapor separating heat exchanger and to quantify the operating performance of multichannel silicon and copper phase separating devices A copper parallel microchannel heat exchanger with nineteen 130 Mu m square microchannels was built and tested at heat fluxes of up to 820 kW m2 and water mass fluxes of between 102 and 420 kg s m2 Normalized pressure drop was improved by as much as 60% and average substrate temperature by a maximum of 4 4 C between the non venting control and vapor venting device under similar operating conditions Comparison between the experimental results and simulation predictions found higher than expected pressure drop improvements at higher mass fluxes and poorer heat transfer coefficients at the lowest mass flux Based on the flow phenomena study these discrepancies are believed to be due to the mass flux and vapor quality dependent two phase flow structures The encouraging experimental and numerical results motivate further study into phase separation methods materials and flow physics The development of a high performance phase separating heat exchanger with the thermal benefits of two phase boiling flow and the hydraulic benefits of single phase liquid flow would strongly enable the adoption and application of two phase heat exchangers to provide effective and efficient cooling for next generation high power computing systems Flow Boiling of a Dilute Emulsion In Smooth and Rough Microgaps Brandon M. Shadakofsky, Francis A Kulacki, 2023-03-24 This book elucidates heat transfer behavior

for boiling of dilute emulsions mixtures of two immiscible fluids which has received little attention to date Of the work completed in this area the majority has been focused on pool boiling where no mean flow is present and this book is the first major work to be published regarding flow boiling of emulsions The book includes a comprehensive review and assessment of research on emulsion based heat transfer Recent experiments are reported and analyzed to characterize heat transfer in microgap flow boiling via a systematic investigation into the effects of gap size mass flux and volume fraction on the heat transfer coefficient and pressure drop The emulsion used in all experiments comprises droplets of an immiscible electronics cooling fluid suspended in water The volume provides a complete baseline for flow boiling of water in the microgaps enabling a determination of the enhancement of the heat transfer coefficient when the disperse component is present Moreover a subset of the data set pertains to flow boiling of dilute emulsions over microporous surfaces. The flow conditions for which the microporous surfaces enhance or degrade heat transfer are presented Finally this book provides a discussion of the physical phenomena which affect boiling and a set of nondimensional numbers that can be used for correlation **Transfer** Young I. Cho, George A. Greene, 2011-11-23 Advances in Heat Transfer fills the information gap between regularly scheduled journals and university level textbooks by providing in depth review articles over a broader scope than in journals or texts The articles which serve as a broad review for experts in the field will also be of great interest to non specialists who need to keep up to date with the results of the latest research This serial is essential reading for all mechanical chemical and industrial engineers working in the field of heat transfer graduate schools or industry Provides an overview of review articles on topics of current interest Bridges the gap between academic researchers and practitioners in industry A long running and prestigious series Advances in New Heat Transfer Fluids Alina Adriana Minea, 2017-03-16 Heat transfer enhancement has seen rapid development and widespread use in both conventional and emerging technologies Improvement of heat transfer fluids requires a balance between experimental and numerical work in nanofluids and new refrigerants Recognizing the uncertainties in development of new heat transfer fluids Advances in New Heat Transfer Fluids From Numerical to Experimental Techniques contains both theoretical and practical coverage Handbook of Energy Efficiency and Renewable Energy D. Yogi Goswami, Frank Kreith, 2007-05-07 Brought to you by the creator of numerous bestselling handbooks the Handbook of Energy Efficiency and Renewable Energy provides a thorough grounding in the analytic techniques and technological developments that underpin renewable energy use and environmental protection The handbook emphasizes the engineering aspects of energy conservation and renewable energy Taking a world view the editors discuss key topics underpinning energy efficiency and renewable energy systems. They provide content at the forefront of the contemporary debate about energy and environmental futures This is vital information for planning a secure energy future Practical in approach the book covers technologies currently available or expected to be ready for implementation in the near future It sets the stage with a survey of current and future world wide energy issues then explores energy policies and incentives for

conservation and renewable energy covers economic assessment methods for conservation and generation technologies and discusses the environmental costs of various energy generation technologies. The book goes on to examine distributed generation and demand side management procedures and gives a perspective on the efficiencies economics and environmental costs of fossil and nuclear technologies Highlighting energy conservation as the cornerstone of a successful national energy strategy the book covers energy management strategies for industry and buildings HVAC controls co generation and advances in specific technologies such as motors lighting appliances and heat pumps It explores energy storage and generation from renewable sources and underlines the role of infrastructure security and risk analysis in planning future energy transmission and storage systems These features and more make the Handbook of Energy Efficiency and Renewable Energy the tool for designing the energy sources of the future Encyclopedia of Microfluidics and Nanofluidics Dongging Li,2008-08-06 Covering all aspects of transport phenomena on the nano and micro scale this encyclopedia features over 750 entries in three alphabetically arranged volumes including the most up to date research insights and applied techniques across all areas Coverage includes electrical double layers optofluidics DNC lab on a chip nanosensors and more Water (R718) Turbo Compressor and Ejector Refrigeration / Heat Pump Technology Milan N. Šarevski, Vasko N. Šarevski, 2016-02-03 Water R718 Turbo Compressor and Ejector Refrigeration Heat Pump Technology provides the latest information on efficiency improvements a main topic in recent investigations of thermal energy machines plants and systems that include turbo compressors ejectors and refrigeration heat pump systems This when coupled with environmental concerns has led to the application of eco friendly refrigerants and to a renewed interest in natural refrigerants Within this context readers will find valuable information that explores refrigeration and heat pump systems using natural refrigerants polygeneration systems the energy efficiency of thermal systems the utilization of low temperature waste heat and cleaner production The book also examines the technical economic and environmental reasons of R718 refrigeration heat pump systems and how they are competitive with traditional systems serving as a valuable reference for engineers who work in the design and construction of thermal plants and systems and those who wish to specialize in the use of R718 as a refrigerant in these systems Describes existing novel R718 turbo compressor and ejector refrigeration heat pump systems and technologies Provides procedures calculating and optimizing cycles system components and system structures Estimates the performance characteristics of the thermal systems Exposes the possibilities for wider applications of R718 systems in the field of refrigeration and heat pumps Magnetocaloric Energy Conversion Andrej Kitanovski, Jaka Tušek, Urban Tomc, Uroš Plaznik, Marko Ožbolt, Alojz Poredoš, 2014-12-03 This book provides the latest research on a new alternative form of technology the magnetocaloric energy conversion This area of research concerns magnetic refrigeration and cooling magnetic heat pumping and magnetic power generation. The book s systematic approach offers the theoretical basis of magnetocaloric energy conversion and its various sub domains and this is supported with the

practical examples Besides these fundamentals the book also introduces potential solutions to engineering problems in magnetocalorics and to alternative technologies of solid state energy conversion. The aim of the book is therefore to provide engineers with the most up to date information and also to facilitate the understanding design and construction of future magnetocaloric energy conversion devices. The magnetocaloric energy conversion represents an alternative to compressor based refrigerators and heat pumps. It is a serious alternative to power generation with low enthalpy heat sources. This green technology offers an opportunity to use environmentally friendly solid refrigerants and the potentially high energy efficiency follows the trends of future energy conversion devices. This book is intended for postgraduate students and researchers of refrigeration heat pumping power generation alternatives heat regenerators and advanced heat transfer mechanisms.

Microscale and Nanoscale Heat Transfer C.B. Sobhan, G.P. Peterson, 2008-06-12 Through analyses experimental results and worked out numerical examples Microscale and Nanoscale Heat Transfer Fundamentals and Engineering Applications explores the methods and observations of thermophysical phenomena in size affected domains Compiling the most relevant findings from the literature along with results from their own re **Heat and Mass Transfer Intensification and Shape Optimization** Lingai Luo, 2013-02-26 Is the heat and mass transfer intensification defined as a new paradigm of process engineering or is it just a common and old idea renamed and given the current taste Where might intensification occur How to achieve intensification How the shape optimization of thermal and fluidic devices leads to intensified heat and mass transfers To answer these questions Heat Mass Transfer Intensification and Shape Optimization A Multi scale Approach clarifies the definition of the intensification by highlighting the potential role of the multi scale structures the specific interfacial area the distribution of driving force the modes of energy supply and the temporal aspects of processes A reflection on the methods of process intensification or heat and mass transfer enhancement in multi scale structures is provided including porous media heat exchangers fluid distributors mixers and reactors A multi scale approach to achieve intensification and shape optimization is developed and clearly explained Providing readers with a tool box of reflections techniques methods supported by literature reviews Heat Mass Transfer Intensification and Shape Optimization A Multi scale Approach will be a key guide for students a teaching aid for lecturers and a source of inspiration for future Fundamentals of Nano- and Microscale Heat Transport Arvind Pattamatta, Sarit K. Das, 2025-08-30 This research subjects book addresses the fundamentals of Micro and Nanoscale transport in various fields of current interest such as thermal dissipation from electronic devices thermoelectric energy conversion devices and Micro electro mechanical systems and sensors MEMS It provides the understanding of heat transport processes in small dimensions and time scales which is imperative when exploring the unlimited potential that nanotechnology has to offer in areas such as micro nanoelectronics MEMS and NEMS etc Since the area of micro and nanoscale heat transport is guite interdisciplinary the book covers the fundamental knowledge of quantum mechanics statistical thermodynamics energy states in solids and classical heat transfer

This book is written is an easy to comprehend style in order to cover all of the above mentioned subjects without warranting prerequisites from the interested reader Students from diverse backgrounds such as Mechanical Aerospace and Electrical engineering may find it as text for a graduate level course on this subject while practicing engineers may find this book as a useful reference

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