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These two volumes contain chapters written by experts in such areas as bio and food rheology, polymer rheology, flow of suspensions, flow in porous media, electrorheological fluids, etc. Computational as well as analytical mathematical descriptions, involving appropriate constitutive equations deal with complex flow situations of industrial importance. This work is unique in that it brings together state of the art reviews and recent advances in a variety of areas, involving viscoelastic materials, in a desirable and timely manner.

Providing professionals in the field with a comprehensive guide and resource, this book balances three traditional

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areas of fluid mechanics - theoretical, computational, and experimental - and expounds on basic science and engineering techniques. Each chapter discusses the primary issues related to the topic in question, outlines expert approaches, and supplies references for further information.

Thermal Separation Technology is a key discipline for many industries and lays the engineering foundations for the sustainable and economic production of high-quality materials. This book provides fundamental knowledge on this field and may be used both in university teaching and in industrial research and development. Furthermore, it is intended to support professional engineers in their daily efforts to improve plant efficiency and reliability. Previous German editions of this book have gained widespread

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recognition. This first English edition will now make its content available to the international community of students and professionals. In the first chapters of the book the fundamentals of thermodynamics, heat and mass transfer, and multiphase flow are addressed. Further chapters examine in depth the different unit operations distillation and absorption, extraction, evaporation and condensation, crystallization, adsorption and chromatography, and drying, while the closing chapter provides valuable guidelines for a conceptual process development.

Stoffübertragung

Compact Heat Exchangers

International Conference Melbourne,

Australia and St. Petersburg, Russia

June 2004, 2003 Proceedings, Part I

Advances in Cold-Region Thermal

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Engineering and Sciences
Heat and Mass Transfer
De Ingenieur

This book provides a solid foundation in the principles of heat and mass transfer and shows how to solve problems by applying modern methods. The basic theory is developed systematically, exploring in detail the solution methods to all important problems. The revised second edition incorporates state-of-the-art findings on heat and mass transfer correlations. The book will be useful not only to

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upper- and graduate-level students, but also to practicing scientists and engineers. Many worked-out examples and numerous exercises with their solutions will facilitate learning and understanding, and an appendix includes data on key properties of important substances. During the past 20 years, the field of mechanical engineering has undergone enormous changes. These changes have been driven by many factors, including: the development of computer technology

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*worldwide competition in
industry improvements in
the flow of information
satellite communication
real time monitoring
increased energy
efficiency robotics
automatic control
increased sensitivity to
environmental impacts of
human activities advances
in design and
manufacturing methods
These developments have
put more stress on
mechanical engineering
education, making it
increasingly difficult to
cover all the topics that
a professional engineer*

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will need in his or her career. As a result of these developments, there has been a growing need for a handbook that can serve the professional community by providing relevant background and current information in the field of mechanical engineering. The CRC Handbook of Mechanical Engineering serves the needs of the professional engineer as a resource of information into the next century.

This book consists of peer-reviewed articles and reviews presented as

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lectures at the Sixth International Symposium on Thermal Engineering and Sciences for Cold Regions in Darmstadt, Germany. It addresses all relevant aspects of thermal physics and engineering in cold regions, such as the Arctic regions. These environments present many unique freezing and melting phenomena and the relevant heat and mass transfer processes are of basic importance with respect to both the technological applications and the natural context in which they occur. Intended

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for physicists, engineers, geoscientists, climatologists and cryologists alike, these proceedings cover topics such as: ice formation and decay, heat conduction with phase change, convection with freezing and melting, thermal properties at low temperature, frost heave and permafrost, climate impact in cold regions, thermal design of structures, bio-engineering in cold regions, and many more. Transfert de Chaleur 1970. Wärme-übertragung 1970.

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***Papers Presented at the
Fourth International Heat
Transfer Conference. Paris-
Versailles, 1970***

***Consolidated Translation
Survey***

***Advances in the Flow and
Rheology of Non-Newtonian
Fluids***

***CRC Handbook of Thermal
Engineering, Second
Edition***

***Computational Science –
ICCS 2003***

***This book presents a
collection of contributions
from experts working on flow
and transport in porous media
around the globe. The book***

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includes chapters authored by engineers, scientists, and mathematicians on single and multiphase flow and transport in homogeneous as well as heterogeneous porous media. Addressing various experimental, analytical, and modeling aspects of transport in sub-surface domains, the book offers a valuable resource for graduate students, researchers, and professionals alike. This volume provides a comprehensive overview on the vast amount of literature on solidification heat transfer. Chapter one develops

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important basic equations and discusses the validity of considering only conductive heat transfer, while ignoring convection, in the large class of materials which make up the porous media. Chapters 2 to 4 deal with problems that can be expressed in plane (Cartesian) coordinates. These problems are further divided into boundary conditions of temperature, prescribed heat flux, and surface convection. Chapter 5 examines some plane geometries involving three-dimensional freezing or thawing. Problems in the cylindrical and spherical

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coordinate systems are covered in chapters 6 and 7. Chapter 8 is an introduction to solidification in porous media. Many of the applications have been directed to water/ice soil-systems, but it should be clear that the basic techniques and solutions can be applied to such diverse areas as metallurgy, biological systems, latent heat storage, and the preservation of food. This book has been written with the idea of providing the fundamentals for those who are interested in the field of heat transfer to non-Newtonian fluids. It is well recognized

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that non-Newtonian fluids are encountered in a number of transport processes and estimation of the heat transfer characteristics in the presence of these fluids requires analysis of equations that are far more complex than those encountered for Newtonian fluids. A deliberate effort has been made to demonstrate the methods of simplification of the complex equations and to put forth analytical expressions for the various heat transfer situations in as vivid a manner as possible. The book covers a broad range of topics from forced,

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natural and mixed convection without and with porous media. Laminar as well as turbulent flow heat transfer to non-Newtonian fluids have been treated and the criterion for transition from laminar to turbulent flow for natural convection has been established. The heat transfer characteristics of non-Newtonian fluids from inelastic power-law fluids to viscoelastic second-order fluids and mildly elastic drag reducing fluids are covered. This book can serve the needs of undergraduates, graduates and industry personnel from

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the fields of chemical engineering, material science and engineering, mechanical engineering and polymer engineering.

Dynamics of Regenerative Heat Transfer

Numerical Simulation of Power Plants and Firing Systems

***A Festschrift for A.L. London
Wärme- und Stoffübertragung***

***Hydraulicians in Europe
1800-2000***

Effect of Condensation on Performance and Design of Extended Surfaces

Containing research on recent technological and scientific developments associated with the

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management of surface and sub-surface water, this book consists of papers presented at the Seventh International Conference on Water Resources Management,. The biennial conference, first held in 1991, is one of several water-related conferences organised by the Wessex Institute of Technology. We have reached a point where water has become quite a precious resource, with communities around the world struggling to ensure adequate supply to their people. The research shared in this volume is an important contribution to the body of literature on the topic. The research covers: Water management and planning; The

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*right to water and sanitation;
Waste water treatment and re-use;
Water markets, policies and
contracts; Climate change;
Irrigation; Urban water
management; Hydraulic
engineering; Water quality;
Pollution contaminants and
control; River basin management;
Flood risk; Wetlands; Regional and
geo-politics of water; Water
resources and economics;
Government and regulations.
The separation operations between
two fluid phases are predominantly
based on the mass transfer between
individual phases across a phase
interphase. The investigation of the
actual transport across the*

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interphase was the topic of a research programme, result in this work -the most profound publication on the topic. Here, scientists working in different subject areas (physics, physical chemistry, technical chemistry, chemical engineering and thermodynamics) present their results in this exciting field.

This edition of 'Micro Process Engineering' was originally published in the successful series 'Advanced Micro & Nanosystems'. Authors from leading industrial players and research institutions present a concise and didactical introduction to Micro Process Engineering, the combination of

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microtechnology and process engineering into a most promising and powerful tool for revolutionizing chemical processes and industrial mass production of bulk materials, fine chemicals, pharmaceuticals and many other products. The book takes the readers from the fundamentals of engineering methods, transport processes, and fluid dynamics to device conception, simulation and modelling, control interfaces and issues of modularity and compatibility. Fabrication strategies and techniques are examined next, focused on the fabrication of suitable microcomponents from various

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materials such as metals, polymers, silicon, ceramics and glass. The book concludes with actual applications and operational aspects of micro process systems, giving broad coverage to industrial efforts in America, Europe and Asia as well as laboratory equipment and education.

Heat Transfer and Fluid Flow in Nuclear Systems

Addressing the Gap between Study and Chemical Industry

Heat Transfer to Non-Newtonian Fluids

Heat Transfer 1970

Proceedings of a Conference

*Sponsored by NASA Headquarters,
Organized by the Microgravity*

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***Fluid Dynamics Discipline
Working Group, and Hosted by
Lewis Research Center, June
21-23, 1994***

***Technological, Environmental, and
Climatological Impact Proceedings
of the 6th International Symposium
Held in Darmstadt, Germany,
22-25 August 1999***

The book comprises the fundamentals of the numerical simulation of fluid flows as well as the modelling of a power plant and plant components. The fundamental equations for heat and mass transfer will be prepared for the application in the numerical

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simulation. Selected numerical methods will be discussed in detail. The book will deal with the gas as well as with the water/steam flow. Regulation and controller, simplified models and hybrid models as well as the validation of measurement data are also included in the book.

The CRC Handbook of Thermal Engineering, Second Edition, is a fully updated version of this respected reference work, with chapters written by leading experts. Its first part covers basic concepts, equations

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and principles of thermodynamics, heat transfer, and fluid dynamics. Following that is detailed coverage of major application areas, such as bioengineering, energy-efficient building systems, traditional and renewable energy sources, food processing, and aerospace heat transfer topics. The latest numerical and computational tools, microscale and nanoscale engineering, and new complex-structured materials are also presented. Designed for easy reference,

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this new edition is a must-have volume for engineers and researchers around the globe.

Heat exchangers are a crucial part of aerospace, marine, cryogenic and refrigeration technology.

These essays cover such topics as complicated flow arrangements, complex extended surfaces, two-phase flow and irreversibility in heat exchangers, and single-phase heat transfer.

Heat Transfer

Formelsammlung

Thermodynamik, Wärme- und Stoffübertragung und

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Strömungsmechanik

Process Engineering

Handbook of Thermal

Conductivity of Liquids and
Gases

Dechema Monographien Bd

136 Transportmechanisms

Across Fluid Interfaces

Heat Exchangers

The author, a respected authority on heat recovery, provides up-to-date and comprehensive coverage of the modelling of the process of heat transfer embodied in regenerative devices. He brings together material on

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storage and thermal generators and gives great emphasis to non-linear problems including the representation of temperature dependence of thermophysical properties involved.; In ten dynamic chapters, you will find coverage of: the storage of heat in packing; the Single Blow problem; basic concepts in counterflow thermal regenerators; counterflow regenerators; finite conductivity models; non-

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linear models of counterflow regenerators; transient response of counterflow regenerators; and parallel flow regenerators. Bringing together material developed over the past twenty years, the book will be of great interest to mechanical and chemical engineers as well as applied mathematicians concerned with models of heat transfer processes. Over the past few decades there has been a

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prolific increase in research and development in area of heat transfer, heat exchangers and their associated technologies. This book is a collection of current research in the above mentioned areas and discusses experimental, theoretical and calculation approaches and industrial utilizations with modern ideas and methods to study heat transfer for single and multiphase systems. The topics

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considered include various basic concepts of heat transfer, the fundamental modes of heat transfer (namely conduction, convection and radiation), thermophysical properties, condensation, boiling, freezing, innovative experiments, measurement analysis, theoretical models and simulations, with many real-world problems and important modern applications. The book is divided in four sections : "Heat

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Transfer in Micro Systems", "Boiling, Freezing and Condensation Heat Transfer", "Heat Transfer and its Assessment", "Heat Transfer Calculations", and each section discusses a wide variety of techniques, methods and applications in accordance with the subjects. The combination of theoretical and experimental investigations with many important practical

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applications of current interest will make this book of interest to researchers, scientists, engineers and graduate students, who make use of experimental and theoretical investigations, assessment and enhancement techniques in this multidisciplinary field as well as to researchers in mathematical modelling, computer simulations and information sciences, who make use of

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experimental and theoretical investigations as a means of critical assessment of models and results derived from advanced numerical simulations and improvement of the developed models and numerical methods. Diese Formelsammlung umfasst die Gebiete technische Thermodynamik, technische Strömungsmechanik, Wärmeübertragung und in geringerem Umfang auch

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die Stoffübertragung. Sie basiert auf den gleichnamigen Vorlesungen der Autoren an der Hochschule für angewandte Wissenschaften Kempten. Systematisch gegliedert werden in der Formelsammlung grundlegende Berechnungsgleichungen, umfangreiche Stoffdaten sowie Lösungsdiagramme für wichtige Berechnungsfunktionen bereitgestellt. Aus Gründen der Kompaktheit und Übersichtlichkeit

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wird dabei weitgehend auf Erläuterungen von Gleichungen und Formelzeichen verzichtet. Die Formelsammlung eignet sich daher besonders als vorlesungs- oder prüfungsbegleitendes Hilfsmittel für Studierende in Ingenieurstudiengängen an Hochschulen oder Universitäten. Eine weitere Zielgruppe bilden Ingenieure mit entsprechenden Vorkenntnissen, die im Berufsalltag schnell auf

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wesentliche Gleichungen und Daten zugreifen möchten.

Heat Transfer with Freezing and Thawing Theoretical Analysis, Experimental

Investigations and Industrial Systems Principles, Methods, Process Design

Analysis, Design and Optimization using FEM and CFD Approach

Influence of fully miscible lubrication oil on flow boiling of CO₂ inside horizontal evaporator tubes

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The CRC Handbook of Mechanical Engineering, Second Edition

*Some of the most
challenging problems in
science and engineering
are being addressed by
the integration of
computation and science,
a research field known as
computational science.
Computational science
plays a vital role in
fundamental advances in
biology, physics,
chemistry, astronomy,
and a host of other
disciplines. This is
through the coordination*

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of computation, data management, access to instrumentation, knowledge synthesis, and the use of new devices. It has an impact on researchers and practitioners in the sciences and beyond. The sheer size of many challenges in computational science dictates the use of supercomputing, parallel and distributed processing, grid-based processing, advanced visualization and sophisticated

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algorithms. At the dawn of the 21st century the series of International Conferences on Computational Science (ICCS) was initiated with a first meeting in May 2001 in San Francisco. The success of that meeting motivated the organization of the second meeting held in Amsterdam April 21-24, 2002, where over 500 participants pushed the research field further. The International Conference on

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Computational Science 2003 (ICCS 2003) is the follow-up to these earlier conferences. ICCS 2003 is unique, in that it was a single event held at two different sites almost opposite each other on the globe - Melbourne, Australia and St. Petersburg, Russian Federation. The conference ran on the same dates at both locations and all the presented work was published in a single set of proceedings,

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which you hold in your hands right now. Dieses bereits in dritter Auflage vorliegende Lehrbuch ist eine umfassende und grA1/4ndliche Darstellung der WArme- und StoffA1/4bertragung. Ihre Theorie wird systematisch entwickelt, und die LAsungsmethoden aller wichtigen Probleme werden ausfA1/4hrlich behandelt. Daher eignet sich dieses Buch nicht nur fA1/4r Studenten, sondern nA1/4tzt auch Wissenschaftlern und

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Ingenieuren in der Praxis als zuverlässiges Nachschlagewerk. Alle Gebiete der Wärme- und Stoffübertragung werden dargestellt: Wärmeleitung und Diffusion, konvektiver Wärme- und Stoffaustausch, Wärmetransport beim Kondensieren und Verdampfen, die Wärmestrahlung sowie die Berechnung der Wärme- und Stoffübertragung. Zahlreiche durchgerechnete Beispiele sowie

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Übungen und Lösungen erleichtern das Verständnis.

Dieser Band

"Stoffübertragung"

entstand auf Anregung

von Herrn Professor

Dr.-Ing. U. Grigull in

seiner von ihm

herausgegebenen

Buchreihe "Warme-und

Stoffübertragung" und

enthalt wesentliche

Aussagen zur stationären

und instationären

Diffusion und

konvektiven

Stoffübertragung in

kurzgefaßter Form. Dabei

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wurde einerseits auf eine grundlagenorientierte Darstellung Wert gelegt, um den Lernenden zu zeigen, wie sich diese Aussagen groBtenteils theoretisch herleiten lassen. Andererseits wurde versucht, dem Ingenieur-oder Naturwissenschaftler in der Praxis Angaben zu machen, wie sich Stoffii bergangskoeffizienten moglichst allgemein abhangig von geometrischen, betrieblichen und

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stofflichen Parametern berechnen oder mindestens abschätzen lassen. Der Band wendet sich somit an Studenten und Praktiker gleichermaßen. Leider ließ es der Umfang des Bandes nicht zu, auf die Stoffübertragung in kompletten Apparaten unter Berücksichtigung der Energiebilanz einzugehen. Ohne die vielfältige und tatkräftige Unterstützung Vieler wäre dieser Band nicht zustande gekommen. Herrn

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*Kollegen Grigull danke
ich fUr die kritische
Durchsicht des
Manuskriptes.*

*Mitarbeiterinnen und
Mitarbeiter des
Lehrstuhls haben mir in
vielriltiger Weise
geholfen. Ihnen allen
sei an dieser Stelle
herzlich gedankt.*

*Miinchen, im Dezember
1985 A. Mersmann*

*Inhaltsverzeichnis 1
Kurze Einfiilirung in
die Fluidodynamik 1.1
Massenerhaltungssatz und
Kontinuitiitsgleichung .*

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*mit Stoffwertetabellen
und -diagrammen*

Handbook of Porous Media

Thermal Separation

Technology

Flow and Transport in

Subsurface Environment

Convective Heat

Transfer, Second Edition

Second Microgravity

Fluid Physics Conference

More than 850 individuals partly forgotten by name, but sometimes found in historical writings, together with many well known or recently deceased persons are presented in terms of bio-data, short career highlights, and main advances made to the profession with a short biography of the main writings. If available, a portrait is also included. *Hydraulicians in Europe, Volume*

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2 is a continuation of the first volume, both in outline and in coverage and pagination. Volumes 1 and 2 include more than 1500 biographies.

Over the last three decades, advances in modeling flow, heat, and mass transfer through a porous medium have dramatically transformed engineering applications. Comprehensive and cohesive, Handbook of Porous Media, Second Edition presents a compilation of research related to heat and mass transfer including the development of practical applications. A collection of research papers into transport phenomena in thermal control, closely related to several important aspects of cooling technology. Articles provide overviews of current advances and details of individual technologies including electronic and turbine cooling and Marangoni convection.

Applied Mechanics Reviews

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The Handbook of Fluid Dynamics
Fundamentals and Analytical Expressions
A dynamic and statistical analysis of the
temperature- and fatigue behavior of a race
power unit – The effect of different
thermodynamic states

Water Resources Management VII

Micro Process Engineering

This textbook provides a comprehensive introduction to chemical process engineering, linking the fundamental theory and concepts to the industrial day-to-day practice. It bridges the gap between chemical sciences and the practical chemical industry. It enables the reader to integrate fundamental knowledge of the basic disciplines, to understand the most important chemical processes, and to apply this knowledge to the practice in the

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industry.

Heat Transfer and Fluid in Flow Nuclear Systems discusses topics that bridge the gap between the fundamental principles and the designed practices. The book is comprised of six chapters that cover analysis of the predicting thermal-hydraulics performance of large nuclear reactors and associated heat-exchangers or steam generators of various nuclear systems. Chapter 1 tackles the general considerations on thermal design and performance requirements of nuclear reactor cores. The second chapter deals with pressurized subcooled light water systems, and the third chapter covers boiling water reactor systems. Chapter 4 tackles liquid metal

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cooled systems, while Chapter 5 discusses helium cooled systems. The last chapter deals with heat-exchangers and steam generators. The book will be of great help to engineers, scientists, and graduate students concerned with thermal and hydraulic problems.

Convective Heat Transfer presents an effective approach to teaching convective heat transfer. The authors systematically develop the topics and present them from basic principles. They emphasize physical insight, problem-solving, and the derivation of basic equations. To help students master the subject matter, they discuss the implementations of the basic equations and the workings of

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examples in detail. The material also includes carefully prepared problems at the end of each chapter. In this Second Edition, topics have been carefully chosen and the entire book has been reorganized for the best presentation of the subject matter. New property tables are included, and the authors dedicate an entire chapter to empirical correlations for a wide range of applications of single-phase convection. The book is excellent for helping students quickly develop a solid understanding of convective heat transfer.

***Fundamentals, Devices,
Fabrication, and Applications
Transport Phenomena In Thermal
Control***

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Die warme- und stoffübertragung bei der verdunstungskühlung und Heat Transfer in Counterflow, Parallel-flow, and Cross-flow Cooling Technologies for Electronic Equipment & Rotating Machinery

A comprehensive source of generalized design data for most widely used fin surfaces in CHEs Compact Heat Exchanger Analysis, Design and Optimization: FEM and CFD Approach brings new concepts of design data generation numerically (which is more cost effective than generic design data) and can be used by design and practicing engineers more effectively. The numerical

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methods/techniques are introduced for estimation of performance deteriorations like flow non-uniformity, temperature non-uniformity, and longitudinal heat conduction effects using FEM in CHE unit level and Colburn j factors and Fanning friction f factors data generation method for various types of CHE fins using CFD. In addition, worked examples for single and two-phase flow CHEs are provided and the complete qualification tests are given for CHEs use in aerospace applications. Chapters cover: Basic Heat Transfer; Compact Heat Exchangers; Fundamentals of

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Finite Element and Finite Volume Methods; Finite Element Analysis of Compact Heat Exchangers; Generation of Design Data by CFD Analysis; Thermal and Mechanical Design of Compact Heat Exchanger; and Manufacturing and Qualification Testing of Compact Heat Exchanger. Provides complete information about basic design of Compact Heat Exchangers Design and data generation is based on numerical techniques such as FEM and CFD methods rather than experimental or analytical ones Intricate design aspects included, covering complete cycle of

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design, manufacturing, and qualification of a Compact Heat Exchanger Appendices on basic essential fluid properties, metal characteristics, and derivation of Fourier series mathematical equation Compact Heat Exchanger Analysis, Design and Optimization: FEM and CFD Approach is ideal for senior undergraduate and graduate students studying equipment design and heat exchanger design.

Handbook of Thermal Conductivity of Liquids and Gases covers practically all of the data available on the thermal conductivity of pure liquids and gases. Thermal

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conductivity data included in the book is based on original experimental measurements and correlations recommended or adopted as a standard by the National Standard Reference Data Service of the Russian Federation. New tabulations of thermal conductivity data on high-molecular organic fluids and the alkali metals in both liquid and gaseous states are featured as well. This book will be an important reference for all researchers working in thermodynamics.