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***Chapter 4 Heat
Transfer
Crcnetbase***

This book presents recent
advances in the field of intelligent

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systems. Composed of fourteen selected chapters, it covers a wide range of research that varies from applications in industrial data science to those in applied science. Today the word INNOVATION is more and more connected with the

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words INTELLIGENT and SECURITY, as such the book discusses the theory and applications of hot topics such as big data, education applications of robots with different levels of autonomy, knowledge-based

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modeling and control of complex dynamical systems, sign-based synthesis of behavior, security issues with intelligent systems, innovative intelligent control design, neuromorphic computation, data-driven classification,

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intelligent modeling and
measurement innovations,
multisensor data association,
personal education assistants, a
modern production architecture,
study of peer review and
scientometrics, intelligent research

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on bug report data, and clustering non-Gaussian data. The broad and varied research discussed represents the mainstream of contemporary intelligent innovations that are slowly but surely changing the world.

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Extensively revised and thoroughly updated, this popular text de-emphasizes high level mathematics in favor of effective, accurate modeling. Real-world examples amplify the theory and show how to use derived equations to model

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physical problems. Exercises that parallel the examples build readers' confidence and prepare them to confront the more complex situations they encounter as professionals.

This reference overflows with an

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abundance of experimental techniques, simulation strategies, and practical applications useful in the control of pollutants generated by combustion processes in the metals, minerals, chemical, petrochemical, waste, incineration,

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paper, glass, and foods industries. The book assists engineers as they attempt to meet e

The continuing trend toward miniaturization and high power density electronics results in a growing interdependency between

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different fields of engineering. In particular, thermal management has become essential to the design and manufacturing of most electronic systems. Heat Transfer: Thermal Management of Electronics details how engineers

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can use intelligent thermal design to prevent heat-related failures, increase the life expectancy of the system, and reduce emitted noise, energy consumption, cost, and time to market. Appropriate thermal management can also create a

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significant market differentiation, compared to similar systems. Since there are more design flexibilities in the earlier stages of product design, it would be productive to keep the thermal design in mind as early as the concept and feasibility

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phase. The author first provides the basic knowledge necessary to understand and solve simple electronic cooling problems. He then delves into more detail about heat transfer fundamentals to give the reader a deeper understanding

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of the physics of heat transfer. Next, he describes experimental and numerical techniques and tools that are used in a typical thermal design process. The book concludes with a chapter on some advanced cooling methods. With its

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comprehensive coverage of thermal design, this book can help all engineers to develop the necessary expertise in thermal management of electronics and move a step closer to being a multidisciplinary engineer.

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Using the Engineering Literature,
Second Edition
New Techniques and Products
The Effects of Hot, Moderate, and
Cold Environments on Human
Health, Comfort and Performance,
Second Edition

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Heat Transfer in Single and
Multiphase Systems

Nanoparticle Heat Transfer and
Fluid Flow

Fundamentals of Convective Heat
Transfer

The Multiphase Flow Handbook,

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Second Edition is a thoroughly updated and reorganized revision of the late Clayton Crowe's work, and provides a detailed look at the basic concepts and the wide range of applications in this important area of thermal/fluids engineering.

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Revised by the new editors, Efsthathios E. (Stathis) Michaelides and John D. Schwarzkopf, the new Second Edition begins with two chapters covering fundamental concepts and methods that pertain to all the

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types and applications of multiphase flow. The remaining chapters cover the applications and engineering systems that are relevant to all the types of multiphase flow and heat transfer. The twenty-one chapters and

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several sections of the book include the basic science as well as the contemporary engineering and technological applications of multiphase flow in a comprehensive way that is easy to follow and be understood. The

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editors created a common set of nomenclature that is used throughout the book, allowing readers to easily compare fundamental theory with currently developing concepts and applications. With contributed

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chapters from sixty-two leading experts around the world, the Multiphase Flow Handbook, Second Edition is an essential reference for all researchers, academics and engineers working with complex thermal and fluid

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systems.

This volume on "Advancement in the Design and Performance of Sustainable Asphalt Pavements" includes a collection of research and practical papers from an international research and

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technology activities on Mixture Design Innovation, Structural Pavement Design, Advancement in Production and Construction, Climate Changes and Effects on Infrastructure, Green Energy, Technology and Integration. The

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volume constitutes an important contribution in view of the urgent need to develop materials, designs, and practices to ensure the sustainability of transportation infrastructure. This volume is part of the proceedings of the 1st

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GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2017. Mathematical Concepts for Mechanical Engineering Design provides a broad understanding of the main computational

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techniques used for simulation of water distribution networks and water transmission systems. It introduces the theoretical background to a number of techniques and general data analysis techniques. The book also

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examines the application of techniques in an industrial setting, including current practices and current research, are presented. It provides practical experience of commercially available systems and includes a small-scale water

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systems related projects. The authors illustrate the concepts and techniques covered in the book by using a calculation that simulates water distribution networks and water transmission systems. The book also covers significant

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research on new methodologies and important applications in the fields of automation and control as well as includes the latest coverage of chemical databases and the development of new computational methods and

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efficient algorithms for hydraulic software and mechanical engineering. The book will be informative and useful to both academics and mechanical engineers in various industrial sectors, including hydraulic and

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mechanical engineering.

Equipping practicing engineers and students with the tools to independently assess and understand complex material on the topic, this text is an ideal precursor to advanced heat

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transfer courses. Intermediate Heat Transfer discusses numerical analysis in conduction and convection, temperature-dependent thermal conductivity, conduction through a slab. Publishers, Librarians, and Users

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Conjugate Problems in
Convective Heat Transfer
Introduction to Engineering Heat
Transfer
Advancement in the Design and
Performance of Sustainable
Asphalt Pavements

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Simulation of Chemical Processes

The understanding and control of transport phenomena in materials processing play an important role in the

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*improvement of
conventional processes
and in the development
of new techniques.*

*Computer modeling of
these phenomena can be
used effectively for*

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this purpose. Although there are several books in the literature covering the analysis of heat tra

The CRC Handbook of Thermal Engineering,

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

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equations and principles of thermodynamics, heat transfer, and fluid dynamics. Following that is detailed coverage of major application areas, such as bioengineering,

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*energy-efficient
building systems,
traditional and
renewable energy
sources, food
processing, and
aerospace heat transfer*

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topics. The latest numerical and computational tools, microscale and nanoscale engineering, and new complex-structured materials are also

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presented. Designed for easy reference, this new edition is a must-have volume for engineers and researchers around the globe.

Cryogenic Heat

Page 44/230

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*TransferTaylor & Francis
This new text integrates
fundamental theory with
modern computational
tools such as EES,
MATLAB®, and FEHT to
equip students with the*

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*essential tools for
designing and optimizing
real-world systems and
the skills needed to
become effective
practicing engineers.
Real engineering*

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problems are illustrated and solved in a clear step-by-step manner. Starting from first principles, derivations are tailored to be accessible to

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*undergraduates by
separating the
formulation and analysis
from the solution and
exploration steps to
encourage a deep and
practical understanding.*

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Numerous exercises are provided for homework and self-study and include standard hand calculations as well as more advanced project-focused problems for the

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*practice and application
of computational tools.*

*Appendices include
reference tables for
thermophysical
properties and answers
to selected homework*

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*problems from the book.
Complete with an online
package of guidance
documents on EES,
MATLAB®, and FEHT
software, sample code,
lecture slides, video*

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tutorials, and a test bank and full solutions manual for instructors, this is an ideal text for undergraduate heat transfer courses and a useful guide for

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practicing engineers.

*CRC Handbook of Thermal
Engineering, Second
Edition*

*Food Engineering
Handbook*

Thermal Management of

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Electronics

Academic E-Books

Computational Fluid

Mechanics and Heat

Transfer, Second Edition

Environmentally

Sustainable Viticulture

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Consumer-driven products have kept the food industry at the forefront of technological innovations. For example, the redefinition of the once accepted compromise

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between convenience and quality is just one of the current issues driving the development of new products. An overview of a range of solutions for these challenges,

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Innovation in Food
Engineering: New
Techniques and Products
addresses not only new or
alternative technologies
but also new products,
materials, and additives

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that have emerged as a response to current and emerging issues faced by the food industry. This book provides a comprehensive overview of modern processing

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technologies and their use to develop new or improved food products and ingredients that meet consumers increased demands for quality and safety. Each chapter in

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the Innovative Techniques section begins with a critical review of the fundamentals of the new or modified technique, its advantages, and relevant results. They include a

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description of the actual industrial scenario where the technique can be applied, emphasizing benefits and economical relevance of this sector. The chapters in the New

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Materials, Products, and Additives section identify the potential of the new or modified product, discuss its production route, and compare it with traditional alternatives.

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While there are many books available on both topics, this is one of the first to cover processing technologies and their use to produce new and improved food products.

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Written by internationally recognized experts and pioneers and comprehensive in scope, the text highlights promising techniques and remaining challenges. In the

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constantly changing global marketplace, keeping up with new developments is important—keeping ahead of them is essential. This book keeps you up to date on the latest technology

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and paves the way for future developments. Transport and transformation processes are key for determining how humans and other organisms are exposed to

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chemicals. These processes are largely controlled by the chemicals' physical-chemical properties. This new edition of the Handbook of Physical-Chemical Properties and

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Environmental Fate for Organic Chemicals is a comprehensive series in four volumes that serves as a reference source for environmentally relevant physical-chemical property

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data of numerous groups of chemical substances. The handbook contains physical-chemical property data from peer-reviewed journals and other valuable sources on over

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1200 chemicals of environmental concern. The handbook contains new data on the temperature dependence of selected physical-chemical properties, which allows

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scientists and engineers to perform better chemical assessments for climatic conditions outside the 20–25-degree range for which property values are generally reported. This

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second edition of the Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals is an essential reference for university libraries,

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regulatory agencies,
consultants, and industry
professionals,
particularly those
concerned with chemical
synthesis, emissions,
fate, persistence, long-

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range transport,
bioaccumulation, exposure,
and biological effects of
chemicals in the
environment. This resource
is also available on CD-
ROM

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This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was

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advances in heat exchanger technology, Heat Exchanger Design Handbook, Second Edition includes enhanced figures and thermal effectiveness charts, tables, new chapter, and

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additional topics--all
while keeping the
qualities that made the
first edition a
centerpiece of information
for practicing engineers,
research, engineers,

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academicians, designers,
and manufacturers involved
in heat exchange between
two or more fluids. See
What's New in the Second
Edition: Updated
information on pressure

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vessel codes,
manufacturer's association
standards A new chapter on
heat exchanger
installation, operation,
and maintenance practices
Classification chapter now

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includes coverage of
scrapped surface-,
graphite-, coil wound-,
microscale-, and printed
circuit heat exchangers
Thorough revision of
fabrication of shell and

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tube heat exchangers, heat transfer augmentation methods, fouling control concepts and inclusion of recent advances in PHEs
New topics like EMbaffle®, Helixchanger®, and

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Twistedtube® heat
exchanger, feedwater
heater, steam surface
condenser, rotary
regenerators for HVAC
applications, CAB brazing
and cupro-braze radiators

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Without proper heat exchanger design, efficiency of cooling/heating system of plants and machineries, industrial processes and energy system can be

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compromised, and energy wasted. This thoroughly revised handbook offers comprehensive coverage of single-phase heat exchangers—selection, thermal design, mechanical

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design, corrosion and fouling, FIV, material selection and their fabrication issues, fabrication of heat exchangers, operation, and maintenance of heat

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exchangers -all in one
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Energy, Heat and Signal
Flow

Industrial Combustion
Pollution and Control
Postharvest Technology and

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Food Process Engineering
Heat Transfer
Heat Transfer Design
Methods

??????????

Under threat from natural
and human disturbance,

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tropical dry forests are the most endangered ecosystem in the tropics, yet they rarely receive the scientific or conservation attention they deserve. In a comprehensive overview, Tropical Dry Forests in the Americas:

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Ecology, Conservation, and Management examines new approaches for data sampling and analysis using remote sensing technology, discusses new ecological and econometric methods, and critically evaluates the

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socio-economic pressures that these forest are facing at the continental and national levels. The book includes studies from Mexico, Costa Rica, Colombia, Venezuela, and Brazil that provide in-depth

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knowledge about the function, status, and conservation efforts of these endangered forests. It presents key elements of synthesis from standardized work conducted across all sites. This unique

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contribution provides new light in terms of these forests compared to each other not only from an ecological perspective but also in terms of the pressures that they are facing, and their respective

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responses. Written by experts from a diversity of fields, this reference brings together the many facets of function, use, heritage, and future potential of these forests. It presents an important and

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exciting synthesis of many years of work across countries, disciplines, and cultures. By standardizing approaches for data sampling and analysis, the book gives readers comparison information that cannot be

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found anywhere else given the high level of disparity that exists in the current literature.

Computational modeling can provide a wealth of insight into how energy flow in proteins mediates protein

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function. Computational methods can also address fundamental questions related to molecular signaling and energy flow in proteins. Proteins: Energy, Heat and Signal Flow presents state-of-the-art

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computational strategies for studying energy redistribution, signaling, and heat transport in proteins and other molecular machines. The first of four sections of the book address the transport of energy in

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molecular motors, which function through a combination of chemically driven large-scale conformational changes and charge transport. Focusing on vibrational energy flow in proteins and

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nanostuctures, the next two sections discuss approaches based on molecular dynamics simulations and harmonic analysis. By exploring the flow of free energy in proteins, the last section examines the conformational

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changes involved in allosteric transitions and the role of coupled protein-solvent dynamics in conformational changes. It also presents computational approaches developed to locate pathways between

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protein structures. The integrated presentation of this comprehensive, up-to-date volume emphasizes the interrelations between disparate computational approaches that have contributed to our

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understanding of energy flow in proteins and its role in protein function. By defining the forefront of research in this area, the book delineates the current challenges and opportunities in developing novel methods

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and applications for the evolving study of energy flow in molecular machines and nanomaterials.

Our responses to our thermal environment have a considerable effect on our performance and behavior,

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not least in the realm of work. There has been considerable scientific investigation of these responses and formal methods have been developed for environmental evaluation and design. In recent years

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these have been developed to the extent that detailed national and international standards of practice have now become feasible. This new edition of Ken Parson's definitive text brings us back up to date. He covers

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hot, moderate and cold environments, and defines these in terms of six basic parameters: air temperature, radiate temperature, humidity, air velocity, clothing worn, and the person's activity. There is

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a focus on the principles and practice of human response, which incorporates psychology, physiology and environmental physics with applied ergonomics. Water requirements, computer modeling and computer-aided

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design are brought in, as are current standards. Special populations, such as the aged or disabled and specialist environments such as those found in vehicles are also considered. This book continues to be the

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standard text for the design of environments for humans to live and work safely, comfortably and effectively, and for the design of materials which help the same people cope with their environments.

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Dramatically restructured, more than double in size, the second edition of the Food Properties Handbook has been expanded from seven to 24 chapters. In the more than ten years since the publication of the

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internationally acclaimed
and bestselling first
edition, many changes have
taken place in the
approaches used to solve
problems in food
preservation, processing,
storage, marketing,

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consumption, and even after consumption. Incorporating changes too numerous to list, this updated edition provides new measurement techniques, basic data compiled for diversified food groups, worked-out

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examples, and detailed graphs and illustrations. Explores Empirical and Theoretical Prediction Models The book clearly defines the terminology and elucidates the theory behind the measurement techniques,

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including applications and limitations of each method. It includes data on sources of error in measurement techniques and experimental data from the literature in graphical or tabular form. The volume also elucidates

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empirical and theoretical prediction models for different foods with processing conditions, descriptions of the applications of the properties, and coverage of where and how to use the

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data and models in food processing. User-Friendly Format Puts the Latest Information within Easy Reach Still under the aegis of Shafir Rahman, the new edition is now an edited volume, benefitting from the

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input and expertise of numerous contributors spanning both the globe and the many disciplines that influence the field. Presented in a user-friendly format, the second edition remains the definitive, and

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arguably the only, source
for data on physical,
thermal, thermodynamic,
structural, and acoustic
properties of foods.

Inverse Engineering Handbook
Handbook of Chemistry and
Physics

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Proteins

Computer Modelling of Heat
and Fluid Flow in Materials
Processing

Handbook of Physical-
Chemical Properties and
Environmental Fate for
Organic Chemicals, Second

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Edition

Multiphase Flow Handbook,
Second Edition

This title includes a number of Open Access chapters. As climate change becomes a growing reality, more industries must grapple with how to implement sustainable business

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practices at every step of the production process. This is especially true for viticulture, where every step of production can take years to come to fruition, and any decision made This comprehensive text provides basic fundamentals of computational theory and computational methods.

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The book is divided into two parts. The first part covers material fundamental to the understanding and application of finite-difference methods. The second part illustrates the use of such methods in solving different types of complex problems encountered in fluid mechanics and

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heat transfer. The book is replete with worked examples and problems provided at the end of each chapter. With the encroachment of the Internet into nearly all aspects of work and life, it seems as though information is everywhere. However, there is information and then there is

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correct, appropriate, and timely information. While we might love being able to turn to Wikipedia® for encyclopedia-like information or search Google® for the thousands of links on a topic, engineers need the best information, information that is evaluated, up-to-date, and complete.

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Accurate, vetted information is necessary when building new skyscrapers or developing new prosthetics for returning military veterans While the award-winning first edition of Using the Engineering Literature used a roadmap analogy, we now need a three-dimensional

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analysis reflecting the complex and dynamic nature of research in the information age. Using the Engineering Literature, Second Edition provides a guide to the wide range of resources available in all fields of engineering. This second edition has been thoroughly revised

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and features new sections on nanotechnology as well as green engineering. The information age has greatly impacted the way engineers find information. Engineers have an effect, directly and indirectly, on almost all aspects of our lives, and it is vital that they find the right

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information at the right time to create better products and processes.

Comprehensive and up to date, with expert chapter authors, this book fills a gap in the literature, providing critical information in a user-friendly format.

Quenching is one of the most

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fundamentally complex processes in the heat treatment of metals, and it is something on which mechanical properties and distortion of engineering components depend. With chapters written by the most respected international experts in the field, Quenching Theory and

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Technology, Second Edition presents the most authoritative, exhaustive, and recent findings in this vital area. Understanding and control of quenching and quenchants is a critical constant in all well established and emerging heat treatment process technology. The collection of up-to-

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date knowledge in this book is the latest outcome from continuing formal and informal discussions by experts within the framework of the International Federation for Heat Treatment and Surface Engineering (IFHTSE). It covers topics including: Thermo-and fluid dynamic principles

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of heat transfer during cooling
Wetting kinematics Residual stresses
after cooling Computer modeling and
prediction of microstructure
transformation Hardness distribution
Stress-strain and distortion With
revised and updated content from
the first edition, this book adds

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coverage of important technological developments. Although the primary focus continues to be on the quenching of steel, it also details quenching of aluminum and titanium alloys, quench severity of selected vegetable oils, gas quenching, intensive quenching, and simulation

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of quenching. Presenting the most recent findings in this area, this essential piece of literature is a substantial contribution to the general field of the thermal processing of metals. It is useful not only for specialists in heat treatment practice, but also those in higher

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education or numerous specialized courses and seminars worldwide.
Tropical Dry Forests in the Americas
Advanced Thermal Design of Electronic Equipment
Human Thermal Environments
Novel Water Treatment and Separation Methods

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Innovation in Food Engineering
Food Engineering Fundamentals
Inverse problems have been the focus of a growing number of research efforts over the last 40 years-and rightly so. The ability to determine a "cause" from an observed "effect" is a powerful

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one. Researchers now have at their disposal a variety of techniques for solving inverse problems, techniques that go well beyond those useful for relatively simple parameter estimation problems. The question is, where can one find a single, comprehensive resource

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that details these methods? The answer is the Inverse Engineering Handbook. Leading experts in inverse problems have joined forces to produce the definitive reference that allows readers to understand, implement, and benefit from a variety of problem-solving

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techniques. Each chapter details a method developed or refined by its contributor, who provides clear explanations, examples, and in many cases, software algorithms. The presentation begins with methods for parameter estimation, which build a bridge to boundary

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function estimation problems. The techniques addressed include sequential function estimation, mollification, space marching techniques, and adjoint, Monte Carlo, and gradient-based methods. Discussions also cover important experimental aspects, including

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experiment design and the effects of uncertain parameters. While many of the examples presented focus on heat transfer, the techniques discussed are applicable to a wide range of inverse problems. Anyone interested in inverse problems,

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regardless of their specialty, will find the Inverse Engineering Handbook to be a unique and invaluable compendium of up-to-date techniques.

Illustrates Calculations Using Machine and Technological Processes The conjugate heat

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transfer (CHT) problem addresses the thermal interaction between a body and fluid flowing over or through it. This is an essential consideration in nature and different areas of engineering, including mechanics, aerospace, nuclear engineering, biology, and

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meteorology. Advanced conjugate modeling of the heat transfer process is now used extensively in a wide range of applications. Conjugate Problems in Convective Heat Transfer addresses the latest theory, methods, and applications associated with both analytical and

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numerical methods of solution CHT problems and their exact and approximate solutions. It demonstrates how the true value of a CHT solution is derived by applying these solutions to contemporary engineering design analysis. Assembling cutting-edge

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information on modern modeling from more than 200 publications, this book presents more than 100 example applications in thermal treatment materials, machinery operation, and technological processes. Creating a practical review of current CHT

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development, the author includes methods associated with estimating heat transfer, particularly that from arbitrary non-isothermal surfaces in both laminar and turbulent flows. Harnesses the Modeling Power of CHT Unique in its consistent compilation and

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application of current knowledge, this book presents advanced CHT analysis as a powerful tool for modeling various device operations and technological processes, from relatively simple procedures to complex multistage, nonlinear processes.

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Filled with over 225 boiler/HRSG operation and design problems, this book covers steam generators and related systems used in process plants, refineries, chemical plants, electrical utilities, and other industrial settings. Emphasizing the thermal engineering aspects, the

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author provides information on the design and performance of steam generators

This book presents state-of-the-art information concerning properties and processes involved in glass melts. Based upon contributions by renowned authors and scientists

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working with glass melt systems, Properties of Glass-Forming Melts is an excellent compilation of the current knowledge on property data, mechanisms, measurement techniques, and structure-related properties of glass-forming. The authors provide in-depth analyses

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of such topics as glass-melt density, thermal expansion, heat conductivity, and chemical activities. Each chapter combines fundamental concepts with a compilation of recent and reliable data that is essential in the modeling of glass melting, fining,

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conditioning, and forming. The book first discusses the glass-forming melts, thermodynamics, transport properties, and redox effects of glass. This provides a sound basis to the analysis of important properties of glass melts such as viscosity, surface tension,

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density, and heat capacity as well as more generalized subjects of heat transfer and gas solubility. A chapter on electrical properties provides a solid foundation for understanding glass melting via direct Joule heating of the melt. The examination of the corrosive

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is an ideal starting place for future-generation glass scientists and an effective reference for scientists who require data on the behavior of viscous melts and for glass technologists who apply mathematical models simulating the melting and forming processes.

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Properties of Glass-Forming Melts offers a one-of-a-kind and valuable source of reliable data and insight by those with firsthand knowledge and experiences in this field. Practical Issues of Intelligent Innovations Ecology, Conservation, and

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packaging continues to grow at an amazing rate. To be successful in this field requires analytical skills, a foundation in mechanical engineering, and access

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to the latest developments in the electronics field. The emphasis for each project that the electronic packaging engineer faces changes

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from project to project,
and from company to
company, yet some
constants should
continue into the
foreseeable future. One
of these is the emphasis

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on thermal design.
Although just a few
years ago thermal
analysis of electronic
equipment was an
afterthought, it is
becoming one of the

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primary aspects of many packaging jobs. It seems that the days of just adding a bigger fan to reduce the overheating problem are almost over. Replacing that thought

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is the up-front
commitment to CFD
(Computational Fluid
Dynamics) software code,
FEA (Finite Element
Analysis) software, and
the realization that the

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problem will only get worse. As the electronic circuit size is reduced, speed is increased. As the power of these systems increases and the volume allowed

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diminishes, heat flux or density (heat per unit area, W/m^2 or $Btu/h\ ft^2$) has spiraled. Much of the improvement in the reliability and packaging density of

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electronic circuits can be traced to advances in thermal design. While air cooling is still used extensively, advanced heat transfer techniques using exotic

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synthetic liquids are becoming more prominent, allowing still smaller systems to be manufactured. The application of advanced thermal management

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techniques requires a background in fluid dynamics.

Over the last three decades, advances in modeling flow, heat, and mass transfer through a

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removal of copper and iron using green
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leaves of *Syzygium cumini* (known as jambul, jambolan, jamblang or jamun), and reactive extraction. These novel separation techniques have proved be advantageous over conventional methods. The volume also looks at modeling and simulation of chemical

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