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Entrepreneurship & Business Management-B. Brown 2012

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Engineering Science N4-Rousseau 1994-12

Newnes Engineering Science Pocket Book-J O Bird 2014-05-20 Newnes Engineering Science Pocket Book provides a readily available reference to the essential engineering science formulae, definitions, and general information needed during studies and/or work situation. This book consists of three main topics—general engineering science, electrical engineering science, and mechanical engineering science. In these topics, this text specifically discusses the atomic structure of matter, standard quality symbols and units, chemical effects of electricity, and capacitors and capacitance. The alternating currents and voltages,

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three phase systems, D.C. machines, and A.C. motors are also elaborated. This compilation likewise covers the linear momentum and impulse, effects of forces on materials, and pressure in fluids. This publication is useful for technicians and engineers, as well as students studying for technician certificates and diplomas, GCSE, and A levels.

Engineering Science-P.G.C. Rousseau 1994

Mathematics N1-D. Duffield 2001

industrial electronics N1-D. J. Van Deventer 2000

Engineering Science-William Bolton 2016-01-29 Engineering Science, Second Edition provides a comprehensive discussion of the fundamental concepts in engineering. The book is comprised of 16 chapters that provide the theories and applications of different engineering concepts. The coverage of the text includes statics (equilibrium and structures), dynamics (motions and vibrations), and energy and thermal systems. The book also discusses electrical circuits, including direct and alternating current circuits, and electric and magnetic fields, including electromagnetism. The text will be useful to students of the various branches of engineering, such as mechanical, electrical, and civil.

Engineering Science N2-Pieter Gerhardus Cloete Rousseau 2000 Engineering Science N2 serves as a user-friendly handbook both for the student and the lecturer in that it not only contains the complete theoretical component for every module, but it also has a short revision section dealing with necessary material from the previous grade.

Engineering Science-Mike Tooley 2013-07-04 Engineering Science will help you understand the scientific principles involved in engineering. Focusing primarily upon core mechanical and electrical science topics, students enrolled on an Engineering Foundation degree and Higher National Engineering qualification will find this book an invaluable aid to their learning. The subject matter covered includes sections on the mechanics of solids, dynamics, thermodynamics, electrostatics and electromagnetic principles, and AC and DC circuit theory. Knowledge-check questions, summary sections and activities are included

throughout the book, and the necessary background mathematics is applied and integrated alongside the appropriate areas of engineering being studied. The result is a clear, straightforward and easily accessible textbook that encourages independent study and covers most of the scientific principles that students are likely to meet at this level. It is supported with a companion website at <http://www.key2engineeringscience.com> for students and lecturers: Solutions to the Test your Knowledge questions in the book Further guidance on essential mathematics Extra chapters on vapour properties, cycles and plants Downloadable SCILAB scripts that helps simplify advanced mathematical content Advances in Computational Dynamics of Particles, Materials and Structures-Jason Har 2012-07-25 Computational methods for the modeling and simulation of the dynamic response and behavior of particles, materials and structural systems have had a profound influence on science, engineering and technology. Complex science and engineering applications dealing with complicated structural geometries and materials that would be very difficult to treat using analytical methods have been successfully simulated using computational tools. With the incorporation of quantum, molecular and biological mechanics into new models, these methods are poised to play an even bigger role in the future. Advances in Computational Dynamics of Particles, Materials and Structures not only presents emerging trends and cutting edge state-of-the-art tools in a contemporary setting, but also provides a unique blend of classical and new and innovative theoretical and computational aspects covering both particle dynamics, and flexible continuum structural dynamics applications. It provides a unified viewpoint and encompasses the classical Newtonian, Lagrangian, and Hamiltonian mechanics frameworks as well as new and alternative contemporary approaches and their equivalences in [start italics]vector and scalar formalisms[end italics] to address the various problems in engineering sciences and physics. Highlights and key features Provides practical applications, from a unified perspective, to both particle and continuum mechanics of flexible structures and materials Presents new and traditional developments, as well as alternate perspectives, for space and time discretization Describes a unified viewpoint under the umbrella of Algorithms by Design

for the class of linear multi-step methods Includes fundamentals underlying the theoretical aspects and numerical developments, illustrative applications and practice exercises The completeness and breadth and depth of coverage makes Advances in Computational Dynamics of Particles, Materials and Structures a valuable textbook and reference for graduate students, researchers and engineers/scientists working in the field of computational mechanics; and in the general areas of computational sciences and engineering.

Healthcare Systems Engineering-Paul M. Griffin 2016-02-25 Apply engineering and design principles to revitalize the healthcare delivery system Healthcare Systems Engineering is the first engineering book to cover this emerging field, offering comprehensive coverage of the healthcare system, healthcare delivery, and healthcare systems modeling. Written by leading industrial engineering authorities and a medical doctor specializing in healthcare delivery systems, this book provides a well-rounded resource for readers of a variety of backgrounds. Examples, case studies, and thoughtful learning activities are used to thoroughly explain the concepts presented, including healthcare systems, delivery, quantification, and design. You'll learn how to approach the healthcare industry as a complex system, and apply relevant design and engineering principles and processes to advance improvements. Written with an eye toward practicality, this book is designed to maximize your understanding and help you quickly apply toward solutions for a variety of healthcare challenges. Healthcare systems engineering is a new and complex interdisciplinary field that has emerged to address the myriad challenges facing the healthcare industry in the wake of reform. This book functions as both an introduction and a reference, giving you the knowledge you need to move toward better healthcare delivery. Understand the healthcare delivery context Use appropriate statistical and quantitative models Improve existing systems and design new ones Apply systems engineering to a variety of healthcare contexts Healthcare systems engineering overlaps with industrial engineering, operations research, and management science, uniting the principles and practices of these fields together in pursuit of optimal healthcare operations. Although collaboration is focused on practitioners, professionals in information technology, policy and administration, public health, and law all

play crucial roles in revamping health care systems. Healthcare Systems Engineering is a complete and authoritative reference for stakeholders in any field.

Statistics and Probability for Engineering Applications-William DeCoursey 2003-05-14 Statistics and Probability for Engineering Applications provides a complete discussion of all the major topics typically covered in a college engineering statistics course. This textbook minimizes the derivations and mathematical theory, focusing instead on the information and techniques most needed and used in engineering applications. It is filled with practical techniques directly applicable on the job. Written by an experienced industry engineer and statistics professor, this book makes learning statistical methods easier for today's student. This book can be read sequentially like a normal textbook, but it is designed to be used as a handbook, pointing the reader to the topics and sections pertinent to a particular type of statistical problem. Each new concept is clearly and briefly described, whenever possible by relating it to previous topics. Then the student is given carefully chosen examples to deepen understanding of the basic ideas and how they are applied in engineering. The examples and case studies are taken from real-world engineering problems and use real data. A number of practice problems are provided for each section, with answers in the back for selected problems. This book will appeal to engineers in the entire engineering spectrum (electronics/electrical, mechanical, chemical, and civil engineering); engineering students and students taking computer science/computer engineering graduate courses; scientists needing to use applied statistical methods; and engineering technicians and technologists. * Filled with practical techniques directly applicable on the job * Contains hundreds of solved problems and case studies, using real data sets * Avoids unnecessary theory

The Soyuz Launch Vehicle-Christian Lardier 2013-03-12 "The Soyuz Launch Vehicle" tells the story, for the first time in a single English-language book, of the extremely successful Soyuz launch vehicle. Built as the world's first intercontinental ballistic missile (ICBM), Soyuz was adapted to launch not only Sputnik but also the first man to orbit Earth, and has been in service for over fifty years in a variety of forms. It

has launched all Soviet manned spacecraft and is now the only means of reaching the International Space Station. It was also the workhorse for launching satellites and space probes and has recently been given a second life in French Guiana, fulfilling a commercial role in a joint venture with France. No other launch vehicle has had such a long and illustrious history. This remarkable book gives a complete and accurate description of the two lives of Soyuz, chronicling the recent cooperative space endeavors of Europe and Russia. The book is presented in two parts: Christian Lardier chronicles the “first life” in Russia while Stefan Barensky explores its “second life,” covering Starsem, the Franco-Russian company and implementation of technology for the French Guiana Space Agency by ESA. Part One has been developed from Russian sources, providing a descriptive approach to very technical issues. The second part of the book tells the contemporary story of the second life of Soyuz, gathered from Western sources and interviews with key protagonists. “The Soyuz Launch Vehicle” is a detailed description of a formidable human adventure, with its political, technical, and commercial ramifications. At a time when a new order was taking shape in the space sector, the players being the United States, Russia, Europe and Asia, and when economic difficulties sometimes made it tempting to give up, this book reminds us that in the global sector, nothing is impossible.

Artificial Life V-International Workshop on the Synthesis and Simulation of Living Systems 1997 In addition to presenting the latest work in the field, Artificial Life V includes a retrospective and prospective look at both artificial and natural life with the aim of refining the methods and approaches discovered so far into viable, practical tools for the pursuit of science and engineering goals. May 16-18, 1996 · Nara, Japan Despite all the successes in computer engineering, adaptive computation, bottom-up AI, and robotics, Artificial Life must not become simply a one-way bridge, borrowing biological principles to enhance our engineering efforts in the construction of life-as-it-could-be. We must ensure that we give back to biology in kind, by developing tools and methods that will be of real value in the effort to understand life-as-it-is. Artificial Life V marks a decade since Christopher Langton organized the first

workshop on artificial life--a decade characterized by the exploration of new possibilities and techniques as researchers have sought to understand, through synthetic experiments, the organizing principles underlying the dynamics (usually the nonlinear dynamics) of living systems. In addition to presenting the latest work in the field, Artificial Life V includes a retrospective and prospective look at both artificial and natural life with the aim of refining the methods and approaches discovered so far into viable, practical tools for the pursuit of science and engineering goals. Complex Adaptive Systems series

A First Course in Quality Engineering-K. S. Krishnamoorthi 2018-09-11 The third edition of this textbook improves on the strengths of the earlier editions both in content and presentation. Of the important features of the textbook is the inclusion of examples from real-world to illustrate use of quality methods in problem solving. A thorough revision is made of the text to make all chapters suitable for self-study as well.

Project Management for Business and Engineering-John M. Nicholas 2004 "This textbook is intended for business analysts, engineers, system developers, systems analysts, and others just getting started in management, and for managers and administrators with little project management training."--Jacket.

A First Course in Electrical and Computer Engineering-Louis L. Scharf 1990

Science for Engineering-John Bird 2012 Information about the Faculty of Science and Engineering, and its activities. Incl. Technical Support Unit; Young Women, engineering challenge event.

Applied Thematic Analysis-Greg Guest 2011-11-09 This book provides step-by-step instructions on how to analyze text generated from in-depth interviews and focus groups, relating predominantly to applied qualitative studies. The book covers all aspects of the qualitative data analysis process, employing a phenomenological approach which has a primary aim of describing the experiences and perceptions of research participants. Similar to Grounded Theory, the authors' approach is inductive, content-driven, and searches for themes within textual data.

Statistical Misconceptions-Schuyler W. Huck 2015-11-19 This engaging book helps readers identify and

then discard 52 misconceptions about data and statistical summaries. The focus is on major concepts contained in typical undergraduate and graduate courses in statistics, research methods, or quantitative analysis. Interactive Internet exercises that further promote undoing the misconceptions are found on the book's website. The author's accessible discussion of each misconception has five parts: The Misconception - a brief description of the misunderstanding Evidence that the Misconception Exists - examples and claimed prevalence Why the Misconception is Dangerous - consequence of having the misunderstanding Undoing the Misconception - how to think correctly about the concept Internet Assignment - an interactive activity to help readers gain a firm grasp of the statistical concept and overcome the misconception. The book's statistical misconceptions are grouped into 12 chapters that match the topics typically taught in introductory/intermediate courses. However, each of the 52 discussions is self-contained, thus allowing the misconceptions to be covered in any order without confusing the reader. Organized and presented in this manner, the book is an ideal supplement for any standard textbook. An ideal supplement for undergraduate and graduate courses in statistics, research methods, or quantitative analysis taught in psychology, education, business, nursing, medicine, and the social sciences. The book also appeals to independent researchers interested in undoing their statistical misconceptions.

Introduction to Applied Linear Algebra-Stephen Boyd 2018-06-07 A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples. Influencing Higher Education Policy-Ant Bagshaw 2019-08-14 Drawing together a team of expert contributors from across the sector to offer contemporary descriptions and critical reflection of practice in higher education, Influencing Higher Education Policy uncovers the nature of policymaking and interpretation. With a suite of authors whose experiences range from governmental to academic, this book shares insights from professionals working in the field of higher education policy to provide useful, practical, and implementable information. Placing focus on professional aspects, and with practical

examples bringing to light experiences, insights, and recommendations across policy and public affairs, this book is divided into three sections. It covers concepts and theories for policy influence, regulation and the role of government, and institutions' engagement with policy. Furthermore, it considers: what it means to work in policy and public affairs in higher education; the increased complexity and fluidity of higher education politics; regulatory reforms in higher education; the position of the student in policy discourses. Offering a contemporary representation, *Influencing Higher Education Policy* is an indispensable guide for all those who work in higher education, particularly those who work in communications, strategy, planning, and leadership roles.

The Seduction of Curves-Allan McRobie 2017-09-19 In this large-format book, lavishly illustrated in color throughout, Allan McRobie takes the reader on an alluring exploration of the beautiful curves that shape our world--from our bodies to Salvador Dalí's paintings and the space-time fabric of the universe itself. The book focuses on seven curves--the fold, cusp, swallowtail, and butterfly, plus the hyperbolic, elliptical, and parabolic "umbilics"--and describes the surprising origins of their taxonomy in the catastrophe theory of mathematician René Thom.

Introducing Survival and Event History Analysis-Melinda Mills 2011-01-19 This book is an accessible, practical and comprehensive guide for researchers from multiple disciplines including biomedical, epidemiology, engineering and the social sciences. Written for accessibility, this book will appeal to students and researchers who want to understand the basics of survival and event history analysis and apply these methods without getting entangled in mathematical and theoretical technicalities. Inside, readers are offered a blueprint for their entire research project from data preparation to model selection and diagnostics. Engaging, easy to read, functional and packed with enlightening examples, 'hands-on' exercises, conversations with key scholars and resources for both students and instructors, this text allows researchers to quickly master advanced statistical techniques. It is written from the perspective of the 'user', making it suitable as both a self-learning tool and graduate-level textbook. Also included are up-to-

date innovations in the field, including advancements in the assessment of model fit, unobserved heterogeneity, recurrent events and multilevel event history models. Practical instructions are also included for using the statistical programs of R, STATA and SPSS, enabling readers to replicate the examples described in the text.

Transactions and Year Book ...-Toronto. University. Engineering Society 1908

Understanding Social Research-Jennifer Mason 2010-12-10 Jennifer Mason and Angela Dale's book seeks to set out cutting-edge developments in the field of social research and to encourage students and researchers to consider ways of learning from different approaches and perspectives in such a way as to make their own research richer, more insightful and more rewarding. Social Researching brings together a wide variety of research methods - both qualitative and quantitative - to help students and researchers to consider the relative benefits of adopting different approaches for their own research work. The authors clearly identify the most appropriate methods for different research questions and also highlight areas where it might be fruitful to compliment different methods with each other or exploit creative tensions between them. The book is therefore a highly practical guide which also seeks to draw readers outside their methodological comfort zones. This book includes: - Critical coverage of issues in research design; - Expert experience in many methodological fields; - An overview of the many different ways to approach similar research problems; - Coverage of the tensions between different methodological approaches; - Examples of excellence in research design and practice; - An examination of how to turn methodological tensions into richer research practice. The methods covered include highly innovative, 'cutting-edge' approaches and they are demonstrated in terms of their transferability between the different social sciences. This inter-disciplinary approach is complimented by a wide range of strategically chosen examples which demonstrate the authors' pragmatic and creative take on research design.

Mathematics for Machine Learning-Marc Peter Deisenroth 2020-04-23 The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix

decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

The Motive-Patrick M. Lencioni 2020-02-26 Shay was still angry but shrugged nonchalantly as if to say, it's not that big of a deal. "So, what am I wrong about?" "You're not going to want to hear this, but I have to tell you anyway." Liam paused before finishing. "You might be working hard, but you're not doing it for the company." "What the hell does that mean?" Shay wanted to know. Knowing that his adversary might punch him for what he was about to say, Liam responded. "You're doing it for yourself." New York Times best-selling author Patrick Lencioni has written a dozen books that focus on how leaders can build teams and lead organizations. In *The Motive*, he shifts his attention toward helping them understand the importance of why they're leading in the first place. In what may be his edgiest page-turner to date, Lencioni thrusts his readers into a day-long conversation between rival CEOs. Shay Davis is the CEO of Golden Gate Alarm, who, after just a year in his role, is beginning to worry about his job and is desperate to figure out how to turn things around. With nowhere else to turn, Shay receives some hard-to-swallow advice from the most unlikely and unwanted source—Liam Alcott, CEO of a more successful security company and his most hated opponent. Lencioni uses unexpected plot twists and crisp dialogue to take us on a journey that culminates in a resolution that is as unexpected as it is enlightening. As he does in his

other books, he then provides a straightforward summary of the lessons from the fable, combining a clear explanation of his theory with practical advice to help executives examine their true motivation for leading. In addition to provoking readers to honestly assess themselves, Lencioni presents action steps for changing their approach in five key areas. In doing so, he helps leaders avoid the pitfalls that stifle their organizations and even hurt the people they are meant to serve.

Bretherick's Handbook of Reactive Chemical Hazards-Peter Urben 2016-06-23 'Bretherick' is widely accepted as the reference work on reactive chemical hazards and is essential for all those working with chemicals. It attempts to include every chemical for which documented information on reactive hazards has been found. The text covers over 5000 elements and compounds and as many again of secondary entries involving two or more compounds. One of its most valuable features is the extensive cross referencing throughout both sections which links similar compounds or incidents not obviously related. The fifth edition has been completely updated and revised by the new Editor and contains documented information on hazards and appropriate references up to 1994, although the text still follows the format of previous editions. Volume 1 is devoted to specific information on the stability of the listed compounds, or the reactivity of mixtures of two or more of them under various circumstances. Each compound is identified by an UPAC-based name, the CAS registry number, its empirical formula and structure. Each description of an incident or violent reaction gives reference to the original literature. Each chemical is classified on the basis of similarities in structure or reactivity, and these groups are listed alphabetically in Volume 2. The group entries contain a complete listing of all the compounds in Volume 1 assigned to that group to assist cross referral to similar compounds. Volume 2 also contains hazard topic entries arranged alphabetically, some with lists. Appendices include a fire related data table for higher risk chemicals, indexes of registry numbers and chemical names as well as reference abbreviations and a glossary.

Linguistic Justice-April Baker-Bell 2020-04-28 Bringing together theory, research, and practice to dismantle Anti-Black Linguistic Racism and white linguistic supremacy, this book provides ethnographic

snapshots of how Black students navigate and negotiate their linguistic and racial identities across multiple contexts. By highlighting the counterstories of Black students, Baker-Bell demonstrates how traditional approaches to language education do not account for the emotional harm, internalized linguistic racism, or consequences these approaches have on Black students' sense of self and identity. This book presents Anti-Black Linguistic Racism as a framework that explicitly names and richly captures the linguistic violence, persecution, dehumanization, and marginalization Black Language-speakers endure when using their language in schools and in everyday life. To move toward Black linguistic liberation, Baker-Bell introduces a new way forward through Antiracist Black Language Pedagogy, a pedagogical approach that intentionally and unapologetically centers the linguistic, cultural, racial, intellectual, and self-confidence needs of Black students. This volume captures what Antiracist Black Language Pedagogy looks like in classrooms while simultaneously illustrating how theory, research, and practice can operate in tandem in pursuit of linguistic and racial justice. A crucial resource for educators, researchers, professors, and graduate students in language and literacy education, writing studies, sociology of education, sociolinguistics, and critical pedagogy, this book features a range of multimodal examples and practices through instructional maps, charts, artwork, and stories that reflect the urgent need for antiracist language pedagogies in our current social and political climate.

Theory-Based Data Analysis for the Social Sciences-Carol S. Aneshensel 2013 This book presents a method for bringing data analysis and statistical technique into line with theory. The author begins by describing the elaboration model for analyzing the empirical association between variables. She then introduces a new concept into this model, the focal relationship. Building upon the focal relationship as the cornerstone for all subsequent analysis, two analytic strategies are developed to establish its internal validity: an exclusionary strategy to eliminate alternative explanations, and an inclusive strategy which looks at the interconnected set of relationships predicted by theory. Using real examples of social research, the author demonstrates the use of this approach for two common forms of analysis, multiple linear regression and

logistic regression. Whether learning data analysis for the first time or adding new techniques to your repertoire, this book provides an excellent basis for theory-based data analysis.

Design Science Methodology for Information Systems and Software Engineering-Roel J. Wieringa 2014-11-19 This book provides guidelines for practicing design science in the fields of information systems and software engineering research. A design process usually iterates over two activities: first designing an artifact that improves something for stakeholders and subsequently empirically investigating the performance of that artifact in its context. This “validation in context” is a key feature of the book - since an artifact is designed for a context, it should also be validated in this context. The book is divided into five parts. Part I discusses the fundamental nature of design science and its artifacts, as well as related design research questions and goals. Part II deals with the design cycle, i.e. the creation, design and validation of artifacts based on requirements and stakeholder goals. To elaborate this further, Part III presents the role of conceptual frameworks and theories in design science. Part IV continues with the empirical cycle to investigate artifacts in context, and presents the different elements of research problem analysis, research setup and data analysis. Finally, Part V deals with the practical application of the empirical cycle by presenting in detail various research methods, including observational case studies, case-based and sample-based experiments and technical action research. These main sections are complemented by two generic checklists, one for the design cycle and one for the empirical cycle. The book is written for students as well as academic and industrial researchers in software engineering or information systems. It provides guidelines on how to effectively structure research goals, how to analyze research problems concerning design goals and knowledge questions, how to validate artifact designs and how to empirically investigate artifacts in context - and finally how to present the results of the design cycle as a whole.

Statistical Power Analysis for the Behavioral Sciences-Jacob Cohen 2013-05-13 Statistical Power Analysis is a nontechnical guide to power analysis in research planning that provides users of applied statistics

with the tools they need for more effective analysis. The Second Edition includes: * a chapter covering power analysis in set correlation and multivariate methods; * a chapter considering effect size, psychometric reliability, and the efficacy of "qualifying" dependent variables and; * expanded power and sample size tables for multiple regression/correlation.

N-1 for the Moon and Mars-Matthew Johnson 2013-11

An Introduction to the Theory of Elasticity-R. J. Atkin 2013-02-20 Accessible text covers deformation and stress, derivation of equations of finite elasticity, and formulation of infinitesimal elasticity with application to two- and three-dimensional static problems and elastic waves. 1980 edition.

Developing Focus Group Research-Jenny Kitzinger 1999-02-22 This book critically examines the potential of, and suggests ways forward in, harnessing a versatile and powerful method of research - focus groups. The book challenges some of the emerging orthodoxies and presents accessible, insightful and reflective discussions about the issues around focus group work. The contributors, an impressive group of experienced researchers from a range of disciplines and traditions, discuss different ways of designing, conducting and analyzing focus group research. They examine sampling strategies; the implications of combining focus groups with other methods; accessing views of 'minority' groups; their contribution to participatory or feminist research; use of software packages; discourse anal

CRC Handbook of Thermal Engineering, Second Edition-Frank Kreith 2017-11-08 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 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, this new edition is a must-have volume for engineers and

researchers around the globe.

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