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CRC Handbook of Applied Thermodynamics Entropy Generation Minimization *Thermomechanics of Drying Processes* **Methods of Thermodynamics Fundamentals of Engineering Thermodynamics Chemical Thermodynamics for Process Simulation Fundamentals of Engineering Thermodynamics, SI Version Thermodynamics of Energy Conversion and Transport Thermodynamics For Dummies Thermodynamics: Basic Principles and Engineering Applications Fundamentals of Engineering Thermodynamics A Jacobian Method for the Rapid Evaluation of Thermodynamic Derivatives Without the Use of Tables Select Thermodynamic Models for Process Simulation Thermodynamics Essential Engineering Thermodynamics General Method and Thermodynamic Tables for Computation and Temperature of Chemical Reactions Chemical and Process Thermodynamics Fundamentals of Thermodynamics Thermodynamic Approaches in Engineering Systems Heat and Mass Transfer Entropy Generation Through Heat and Fluid Flow Introductory Chemical Engineering Thermodynamics Thermodynamics An Inductive Approach to Engineering Thermodynamics Statistical Thermodynamics Thermodynamics Thermodynamics A Method for the Development of Thermodynamic Equations of State by the Representation of Multiple Data Forms Modeling Thermodynamic Distance, Curvature and Fluctuations Exergy Method A Thermodynamic Approach to Water Geothermometry Thermodynamics, Gibbs Method and Statistical Physics of Electron Gases Fundamentals of Engineering Thermodynamics Thermodynamic Methods in the Theory of Heterogeneous Systems Introduction to Thermal Systems Engineering Beyond the Second Law Thermofluids Thermodynamic Properties of Organic Compounds Thermal Engineering Studies with Excel, Mathcad and Internet Advanced Thermodynamics for Engineers**

The exergy method makes it possible to detect and quantify the possibilities of improving thermal and chemical processes and systems. The introduction of the concept thermo-ecological cost (cumulative consumption of non-renewable natural exergy resources) generated large application possibilities of exergy in ecology. This book contains a short presentation on the basic principles of exergy analysis and discusses new achievements in the field over the last 15 years. One of the most important issues considered by the distinguished author is the economy of non-renewable natural exergy. Previously discussed only in scientific journals, other important new problems highlighted include: calculation of the chemical exergy of all the stable chemical elements, global natural and anthropogenic exergy losses, practical guidelines for improvement of the thermodynamic imperfection of thermal processes and systems, development of the determination methods of partial exergy losses in thermal systems, evaluation of the natural mineral capital of the Earth, and the application of exergy for the determination of a pro-ecological tax. A basic knowledge of thermodynamics is assumed, and the book is therefore most appropriate for graduate students and engineers working in the field of energy and ecological management. The selection of the most adequate thermodynamic model in a process simulation is an issue that most process engineer has to face sooner or later. This book, conceived as a practical guide, aims at providing adequate answers by analysing the questions to be looked at. The analysis (first chapter) yields three keys that are further discussed in three different chapters. (1) A good understanding of the properties required in the process, and their method of calculation is the first key. The second chapter provides to that end in a synthetic manner the most important equations that are derived from the fundamental principles of thermodynamics. (2) An adequate description of the mixture, which is a combination of models and parameters, is the second key. The third chapter makes the link between components and models, both from a numerical (parameterisation) and physical (molecular interactions)

point of view. Finally, (3) a correct view of the phase behaviour and trends in regard of the process conditions is the third key. The fourth chapter illustrates the phase behaviour and makes model recommendations for the most significant industrial systems. A decision tree is provided at the end of this chapter. In the last chapter, the key questions are reviewed for a number of typical processes. This book is intended for process engineers, who are not specialists of thermodynamics but are confronted with this kind of problems and need a reference book, as well as process engineering students who will find an original approach to thermodynamics, complementary of traditional lectures Thermodynamic Approaches in Engineering Systems responds to the need for a synthesizing volume that throws light upon the extensive field of thermodynamics from a chemical engineering perspective that applies basic ideas and key results from the field to chemical engineering problems. This book outlines and interprets the most valuable achievements in applied non-equilibrium thermodynamics obtained within the recent fifty years. It synthesizes nontrivial achievements of thermodynamics in important branches of chemical and biochemical engineering. Readers will gain an update on what has been achieved, what new research problems could be stated, and what kind of further studies should be developed within specialized research. Presents clearly structured chapters beginning with an introduction, elaboration of the process, and results summarized in a conclusion Written by a first-class expert in the field of advanced methods in thermodynamics Provides a synthesis of recent thermodynamic developments in practical systems Presents very elaborate literature discussions from the past fifty years 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 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. The only textbook that applies thermodynamics to real-world process engineering problems This must-read for advanced students and professionals alike is the first book to demonstrate how chemical thermodynamics work in the real world by applying them to actual engineering examples. It also discusses the advantages and disadvantages of the particular models and procedures, and explains the most important models that are applied in process industry. All the topics are illustrated with examples that are closely related to practical process simulation problems. At the end of each chapter, additional calculation examples are given to enable readers to extend their comprehension. Chemical Thermodynamics for Process Simulation instructs on the behavior of fluids for pure fluids, describing the main types of equations of state and their abilities. It discusses the various quantities of interest in process simulation, their correlation, and prediction in detail. Chapters look at the important terms for the description of the thermodynamics of mixtures; the most important models and routes for phase equilibrium calculation; models which are applicable to a wide variety of non-electrolyte systems; membrane processes; polymer thermodynamics; enthalpy of reaction; chemical equilibria, and more. - Explains thermodynamic fundamentals used in process simulation with solved examples -Includes new chapters about modern measurement techniques, retrograde condensation, and simultaneous description of chemical equilibrium -Comprises numerous solved examples, which simplify the understanding of the often complex calculation procedures, and discusses advantages and disadvantages of models and procedures -Includes estimation methods for thermophysical properties and phase equilibria thermodynamics of alternative separation processes -Supplemented with MathCAD-sheets and DDBST programs for readers to reproduce the examples Chemical Thermodynamics for Process Simulation is an ideal resource for those working in the fields of process development, process synthesis, or process optimization, and an excellent book for students in the engineering sciences. Thermodynamic Properties of Organic Compounds: Estimation Methods, Principles and Practice, Revised Edition focuses on the progression of practical methods in computing the thermodynamic characteristics of organic compounds. Divided into two parts with eight chapters, the book concentrates first on the methods of estimation. Topics presented are statistical and combined thermodynamic functions; free energy change and equilibrium conversions; and estimation of thermodynamic properties. The next discussions focus on the thermodynamic properties of simple polyatomic systems by statistical thermodynamic methods. Discussed are molecular energy of an ideal gas; partition function and thermodynamic properties; and calculation of statistical thermodynamic functions. The book also notes the dynamic properties of long chain hydrocarbons and the method of structural similarity. Tabulations and numerical representations are presented as well. Discussions also focus on methods of group contributions and group equations.

Included are paraffins, unsaturated carbons, cyclic hydrocarbons, and nonhydrocarbon groups. The last part of the text focuses on heat formation and heat capacity; the applications of thermodynamic method; and numerical data. Included in the discussions are bond energies and binding energies; gaseous free radicals and ions; and hydrogenation of benzene. The book is an important source of data for readers interested in studying the thermodynamic characteristics of organic compounds. Presenting a comprehensive and thorough treatment of thermodynamics while still retaining an engineering perspective, this updated edition contains revised contents and chapters, changes in table listings and equations, as well as the addition of simpler homework problems. Engineering Thermodynamics is a core course for students majoring in Mechanical and Aerospace Engineering. Before taking this course, students usually have learned Engineering Mechanics—Statics and Dynamics, and they are used to solving problems with calculus and differential equations. Unfortunately, these approaches do not apply for Thermodynamics. Instead, they have to rely on many data tables and graphs to solve problems. In addition, many concepts are hard to understand, such as entropy. Therefore, most students feel very frustrated while taking this course. The key concept in Engineering Thermodynamics is state-properties: If one knows two properties, the state can be determined, as well as the other four properties. Unlike most textbooks, the first two chapters of this book introduce thermodynamic properties and laws with the ideal gas model, where equations can be engaged. In this way, students can employ their familiar approaches, and thus can understand them much better. In order to help students understand entropy in depth, interpretation with statistical physics is introduced. Chapters 3 and 4 discuss control-mass and control-volume processes with general fluids, where the data tables are used to solve problems. Chapter 5 covers a few advanced topics, which can also help students understand the concepts in thermodynamics from a broader perspective. This book deals with theoretical thermodynamics and the statistical physics of electron and particle gases. It treats the laws of thermodynamics from a classical and a quantum theoretical view point. The free energy is calculated with a Gibbs formalism. For the thermodynamics course in the Mechanical & Aerospace Engineering department Thermodynamics: An Interactive Approach employs a layered approach that introduces the important concepts of mass, energy, and entropy early, and progressively refines them throughout the text. To create a rich learning experience for today's thermodynamics student, this book melds traditional content with the web-based resources and learning tools of TEST: The Expert System for Thermodynamics (www.pearsonhighered.com/bhattacharjee)-an interactive platform that offers smart thermodynamic tables for property evaluation and analysis tools for mass, energy, entropy, and exergy analysis of open and closed systems. MasteringEngineering for Thermodynamics is a total learning package. This innovative online program emulates the instructor's office-hour environment, guiding students through engineering concepts from Thermodynamics with self-paced individualized coaching. Teaching and Learning Experience To provide a better teaching and learning experience, for both instructors and students, this program will: Personalize Learning with Individualized Coaching: MasteringEngineering emulates the instructor's office-hour environment using self-paced individualized coaching. Introduce Fundamental Theories Early: A layered approach introduces important concepts early, and progressively refines them in subsequent chapters to lay a foundation for true understanding. Engage Students with Interactive Content: To create a rich learning experience for today's thermodynamics student, this book melds traditional content with web-based resources and learning tools. Note: You are purchasing the standalone text. MasteringEngineering does not come automatically packaged with the text. To purchase MasteringEngineering, search for ISBN-10: 0133807975 / ISBN-13: 9780133807974. That package contains ISBN-10: 0130351172 / ISBN-13: 9780130351173 and ISBN-10: 0133810844 / ISBN-13: 9780133810844. MasteringEngineering is not a self-paced technology and should only be purchased when required by an instructor. This book is interdisciplinary in character and combines the knowledge of mechanics and chemical engineering with the aim of presenting a more exhaustive analysis of the phenomena occurring in wet materials during drying. Traditionally, the subject of drying has been an almost exclusive domain of chemical engineers. The drying curricula have mostly included only the courses of heat and mass transfer or diffusion. The mechanical phenomena that accompany drying, as for example, warping or deformation of dried materials, or the drying induced stresses and fissures of the material, were ignored or considered in a rather obscure way. This book broadens the scope of drying theory, bringing into the curriculum the tools enabling the study of both heat and mass transport processes and the mechanical phenomena that occur in wet materials under drying. There is little available literature that brings together heat and mass transport processes and mechanical phenomena in a unified approach to drying processes. This textbook is for a one semester introductory course in

thermodynamics, primarily for use in a mechanical or aerospace engineering program, although it could also be used in an engineering science curriculum. The book contains a section on the geometry of curves and surfaces, in order to review those parts of calculus that are needed in thermodynamics for interpolation and in discussing thermodynamic equations of state of simple substances. It presents the First Law of Thermodynamics as an equation for the time rate of change of system energy, the same way that Newton's Law of Motion, an equation for the time rate of change of system momentum, is presented in Dynamics. Moreover, this emphasis illustrates the importance of the equation to the study of heat transfer and fluid mechanics. New thermodynamic properties, such as internal energy and entropy, are introduced with a motivating discussion rather than by abstract postulation, and connection is made with kinetic theory. Thermodynamic properties of the vaporizable liquids needed for the solution of practical thermodynamic problems (e.g. water and various refrigerants) are presented in a unique tabular format that is both simple to understand and easy to use. All theoretical discussions throughout the book are accompanied by worked examples illustrating their use in practical devices. These examples of the solution of various kinds of thermodynamic problems are all structured in exactly the same way in order to make, as a result of the repetitions, the solution of new problems easier for students to follow, and ultimately, to produce themselves. Many additional problems are provided, half of them with answers, for students to do on their own. This survey of thermal systems engineering combines coverage of thermodynamics, fluid flow, and heat transfer in one volume. Developed by leading educators in the field, this book sets the standard for those interested in the thermal-fluids market. Drawing on the best of what works from market leading texts in thermodynamics (Moran), fluids (Munson) and heat transfer (Incropera), this book introduces thermal engineering using a systems focus, introduces structured problem-solving techniques, and provides applications of interest to all engineers. This book presents the diverse and rapidly expanding field of Entropy Generation Minimization (EGM), the method of thermodynamic optimization of real devices. The underlying principles of the EGM method - also referred to as "thermodynamic optimization," "thermodynamic design," and "finite time thermodynamics" - are thoroughly discussed, and the method's applications to real devices are clearly illustrated. The EGM field has experienced tremendous growth during the 1980s and 1990s. This book places EGM's growth in perspective by reviewing both sides of the field - engineering and physics. Special emphasis is given to chronology and to the relationship between the more recent work and the pioneering work that outlined the method and the field. Entropy Generation Minimization combines the fundamental principles of thermodynamics, heat transfer, and fluid mechanics. EGM applies these principles to the modeling and optimization of real systems and processes that are characterized by finite size and finite time constraints, and are limited by heat and mass transfer and fluid flow irreversibilities. Entropy Generation Minimization provides a straightforward presentation of the principles of the EGM method, and features examples that elucidate concepts and identify recent EGM advances in engineering and physics. Modern advances include the optimization of storage by melting and solidification; heat exchanger design; power from hot-dry-rock deposits; the on & off operation of defrosting refrigerators and power plants with fouled heat exchangers; the production of ice and other solids; the maximization of power output in simple power plant models with heat transfer irreversibilities; the minimization of refrigerator power input in simple models; and the optimal collection and use of solar energy. This text is concerned with the methods in which different types of energy are converted from one form to another. In particular, the book examines why so many of the energy conversion processes which involve heat have a low efficiency rating. This text aims to present the key topics in thermodynamics in an accessible manner, using a physical intuitive approach rather than a highly mathematical one. Over 1000 illustrations are used to illustrate the topics, and the worked examples are also illustrated with sketches and process diagrams. Clearly connects macroscopic and microscopic thermodynamics and explains non-equilibrium behavior in kinetic theory and chemical kinetics. Presents a comprehensive and rigorous treatment of the subject from the classical perspective to offer a problem-solving methodology that encourages systematic thinking. Noted for its treatment of the second law, this text clearly presents both theory and application. The presentation of chemical availability has been extended by a cutting-edge discussion of standard chemical availability. Design applications and problems have been updated to include economic considerations. Environmental topics have also been expanded and updated. The new version of Interactive Thermodynamics (IT) is a powerful windows-based software program that now includes equation-solver, printing, graphing, data retrieval and simulation capabilities. Outstanding text focuses on physical technique of thermodynamics, typical problems, and significance and use of thermodynamic potential. Mathematical apparatus, first law of thermodynamics, second law and entropy, more. 1965 edition. This textbook provides an alternative,

inductive treatment of traditional Engineering Thermodynamics, e.g. energy and its transformations in engineering systems, and introduces the notion of eXergy. The book begins with energy methods developed in mechanics and transitions to thermodynamics by introducing both 1st and 2nd Laws of Thermodynamics immediately, incorporating more-advanced concepts using practical applications. This methodology continues throughout the text, wherein consideration of a specific example leads to general conclusions. At the same time, the author introduces eXergy, also called "Availability," a measure of the potential of a substance to produce useful mechanical work in being brought from its current state to the conditions of the local environment. The book facilitates students' understanding with workshop problem statements and guided spreadsheet. It is appropriate for a sophomore- or junior-level first course in thermodynamics and is restricted to "simple compressible substances" with no formal chemical reaction development. Mechanical engineering applications are the primary target, where several follow-up courses would follow (fluid mechanics, heat transfer, and a 2nd thermos course). Civil or electrical engineering students could benefit from just this course, and chemical engineering programs could develop chemically reacting and non-ideal applications in follow-up courses. The Second Law, a cornerstone of thermodynamics, governs the average direction of dissipative, non-equilibrium processes. But it says nothing about their actual rates or the probability of fluctuations about the average. This interdisciplinary book, written and peer-reviewed by international experts, presents recent advances in the search for new non-equilibrium principles beyond the Second Law, and their applications to a wide range of systems across physics, chemistry and biology. Beyond The Second Law brings together traditionally isolated areas of non-equilibrium research and highlights potentially fruitful connections between them, with entropy production playing the unifying role. Key theoretical concepts include the Maximum Entropy Production principle, the Fluctuation Theorem, and the Maximum Entropy method of statistical inference. Applications of these principles are illustrated in such diverse fields as climatology, cosmology, crystal growth morphology, Earth system science, environmental physics, evolutionary biology and technology, fluid turbulence, microbial biogeochemistry, plasma physics, and radiative transport, using a wide variety of analytical and experimental techniques. Beyond The Second Law will appeal to students and researchers wishing to gain an understanding of entropy production and its central place in the science of non-equilibrium systems – both in detail and in terms of the bigger picture. Take some heat off the complexity of thermodynamics Does the mere thought of thermodynamics make you sweat? It doesn't have to! This hands-on guide helps you score your highest in a thermodynamics course by offering easily understood, plain-English explanations of how energy is used in things like automobiles, airplanes, air conditioners, and electric power plants. Thermodynamics 101 — take a look at some examples of both natural and man-made thermodynamic systems and get a handle on how energy can be used to perform work Turn up the heat — discover how to use the first and second laws of thermodynamics to determine (and improve upon) the efficiency of machines Oh, behave — get the 411 on how gases behave and relate to one another in different situations, from ideal-gas laws to real gases Burn with desire — find out everything you need to know about conserving mass and energy in combustion processes Open the book and find: The laws of thermodynamics Important properties and their relationships The slowdown on solids, liquids, and gases How work and heat go hand in hand The cycles that power thermodynamic processes Chemical mixtures and reactions Ten pioneers in thermodynamics Real-world applications of thermodynamic laws and concepts Learn to: Master the concepts and principles of thermodynamics Develop the problem-solving skills used by professional engineers Ace your thermodynamics course This practical handbook features an overview of the importance of physical properties and thermodynamics; and the use of thermo-dynamics to predict the extent of reaction in proposed new chemical combinations. The use of special types of data and prediction methods to develop flowsheets for probing projects; and sources of critically evaluated data, dividing the published works into three categories depending on quality are given. Methods of doing one's own critical evaluation of literature, a list of known North American contract experimentalists with the types of data measured by each, methods for measuring equilibrium data, and thermodynamic concepts to carry out process optimization are also featured. Although the basic theories of thermodynamics are adequately covered by a number of existing texts, there is little literature that addresses more advanced topics. In this comprehensive work the author redresses this balance, drawing on his twenty-five years of experience of teaching thermodynamics at undergraduate and postgraduate level, to produce a definitive text to cover thoroughly, advanced syllabuses. The book introduces the basic concepts which apply over the whole range of new technologies, considering: a new approach to cycles, enabling their irreversibility to be taken into account; a detailed study of combustion to show how the chemical energy in a fuel is converted into thermal energy

and emissions; an analysis of fuel cells to give an understanding of the direct conversion of chemical energy to electrical power; a detailed study of property relationships to enable more sophisticated analyses to be made of both high and low temperature plant and irreversible thermodynamics, whose principles might hold a key to new ways of efficiently covering energy to power (e.g. solar energy, fuel cells). Worked examples are included in most of the chapters, followed by exercises with solutions. By developing thermodynamics from an explicitly equilibrium perspective, showing how all systems attempt to reach a state of equilibrium, and the effects of these systems when they cannot, the result is an unparalleled insight into the more advanced considerations when converting any form of energy into power, that will prove invaluable to students and professional engineers of all disciplines. Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly dented, may have slight color changes/slightly damaged spine. Fundamentals of Engineering Thermodynamics sets the standard for teaching students how to be effective problem solvers. Integrated throughout this product are real-world applications that emphasize the relevance of thermodynamic principles to some of the most critical problems and issues of today. These include a wealth of coverage on topics related to energy and the environment, biomedical/bioengineering, and emerging technologies. The Enhanced E-Text is also available bundled with an abridged print companion and can be ordered by contacting customer service here: ISBN: 9781119456285 Price: \$130.95 Canadian Price: \$114.95 Scientists and engineers are nowadays faced with the problem of optimizing complex systems subject to constraints from, ecology, economics, and thermodynamics. It is chiefly to the last of these that this volume is addressed. Intended for physicists, chemists, and engineers, the book uses examples from solar, thermal, mechanical, chemical, and environmental engineering to focus on the use of thermodynamic criteria for optimizing energy conversion and transmission. The early chapters centre on solar energy conversion, the second section discusses the transfer and conversion of chemical energy, while the concluding chapters deal with geometric methods in thermodynamics. A comprehensive, best-selling introduction to the basics of engineering thermodynamics. Requiring only college-level physics and calculus, this popular book includes a realistic art program to give more realism to engineering devices and systems. A tested and proven problem-solving methodology encourages readers to think systematically and develop an orderly approach to problem solving: Provides readers with a state-of-the art introduction to second law analysis. Design/open-ended problems provide readers with brief design experiences that offer them opportunities to apply constraints and consider alternatives. Presents a unique, stepwise exergy-based approach to thermodynamic concepts, systems, and applications Thermodynamics: A Smart Approach redefines this crucial branch of engineering as the science of energy and exergy—rather than the science of energy and entropy—to provide an innovative, step-by-step approach for teaching, understanding, and practicing thermodynamics in a clearer and easier way. Focusing primarily on the concepts and balance equations, this innovative textbook covers exergy under the second law of thermodynamics, discusses exergy matters, and relates thermodynamics to environmental impact and sustainable development in a clear, simple and understandable manner. It aims to change the way thermodynamics is taught and practiced and help overcome the fear of thermodynamics. Author Ibrahim Dincer, a pioneer in the areas of thermodynamics and sustainable energy technologies, draws upon his multiple decades of experience teaching and researching thermodynamics to offer a unique exergy-based approach to the subject. Enabling readers to easily comprehend and apply thermodynamic principles, the text organizes thermodynamics into seven critical steps—property, state, process, cycle, first law of thermodynamics, second law of thermodynamics and performance assessment—and provides extended teaching tools for systems and applications. Precise, student-friendly chapters cover fundamental concepts, thermodynamic laws, conventional and innovative power and refrigeration cycles, and more. This textbook: Covers a unique approach in teaching design, analysis and assessment of thermodynamic systems Provides lots of examples for every subject for students and instructors Contains hundreds of illustrations, figures, and tables to better illustrate contents Includes many conceptual questions and study problems Features numerous systems related examples and practical applications Thermodynamics: A Smart Approach is an ideal textbook for undergraduate students and graduate students of engineering and applied science, as well researchers, scientists, and practicing engineers seeking a precise and concise textbook and/or reference work. This book provides the fundamentals of the application of mathematical methods, modern computational tools (Excel, Mathcad, SMath, etc.), and the Internet to solve the typical problems of heat and mass transfer, thermodynamics, fluid dynamics, energy conservation and energy efficiency. Chapters cover the technology for creating and using databases on various properties of working fluids, coolants and thermal materials. All calculation methods are provided with links to online computational pages

where data can be inserted and recalculated. It discusses tasks involving the generation of electricity at thermal, nuclear, gas turbine and combined-cycle power plants, as well as processes of co- and trigeneration, conditioning facilities and heat pumps. This text engages students and researchers by using modern calculation tools and the Internet for thermal engineering applications. This book explores water geothermometry, a highly relevant topic in the exploration and exploitation of geothermal energy. Presenting theoretical geothermometers and indicators of CO₂ fugacity, it describes a rigorous new approach entirely based on thermodynamics. The book will appeal to geothermal geoscientists, especially those working in research institutions and companies around the globe. It is also of interest to students on advanced courses in applied geochemistry, water–rock interaction and other related areas. This textbook aims to briefly outline the main directions in which the geometrization of thermodynamics has been developed in the last decades. The textbook is accessible to people trained in thermal sciences but not necessarily with solid formation in mathematics. For this, in the first chapters a summary of the main mathematical concepts is made. In some sense, this makes the textbook self-consistent. The rest of the textbook consists of a collection of results previously obtained in this young branch of thermodynamics. The manner of presentation used throughout the textbook is adapted for ease of access of readers with education in natural and technical sciences. An up-to-date introduction to applied thermodynamics, this book will help readers master the fundamentals of applied thermodynamics as practiced today: with a molecular perspective and extensive use of process simulation. The book presents extensive practical examples throughout and makes extensive use of models and equations that may be worked with low-cost calculators and spreadsheet software.

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