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of Thermodynamics Companion to Chemical Thermodynamics

Now in a Sixth Edition, Fundamentals of Engineering Thermodynamics maintains its engaging, readable style while presenting a broader range of applications that motivate student understanding of core thermodynamics concepts. This leading text uses many relevant engineering-based situations to help students model and solve problems. This elegant book provides a student-friendly introduction to the subject of physical chemistry. It is concise and more compact than standard textbooks on the subject and it emphasises the two important concepts underpinning physical chemistry: quantum mechanics and the second law of thermodynamics. The principles are challenging to students because they both focus on uncertainty and probability. The book explains these fundamental concepts clearly and shows how they offer the key to understanding the wide range of chemical phenomena including atomic and molecular spectra, the structure and properties of solids, liquids and gases, chemical equilibrium, and the rates of chemical reactions. This widely acclaimed text, now in its fifth edition and translated into many languages, continues to present a clear, simple and concise introduction to chemical thermodynamics. An examination of equilibrium in the everyday world of mechanical objects provides the starting point for an accessible account of the factors that determine equilibrium in chemical systems. This straightforward approach leads students to a thorough understanding of the basic principles of thermodynamics, which are then applied to a wide range of physico-chemical systems. The book also discusses the problems of non-ideal solutions and the concept of activity, and provides an introduction to the molecular basis of thermodynamics. Over five editions, the views of teachers of the subject and their students have been incorporated. The result is a little more rigour in specifying the dimensions within logarithmic expressions, the addition of more worked examples and the inclusion of a simple treatment of the molecular basis of thermodynamics. Students on courses in thermodynamics will continue to find this popular book an excellent introductory text.

Now in a new edition, this book continues to set the standard for teaching readers how to be effective problem solvers, emphasizing the authors's signature methodologies that have taught over a half million students worldwide. This new edition provides a student-friendly approach that emphasizes the relevance of thermodynamics principles to some of the most critical issues of today and coming decades, including a wealth of integrated coverage of energy and the environment, biomedical/bioengineering, as well as emerging technologies. Visualization skills are developed and basic principles demonstrated through a complete set of animations that have been interwoven throughout. This edition of

"Thermodynamics" continues the tradition of providing a fundamentally sound, well-written, technically accurate text. This new edition addresses the needs of today's marketplace through the following enhancements: a greater emphasis on thermoeconomics and current real world applications, more design problems, more real world and visual problems, a re-vamped design and a stronger pedagogical program. The book will also be available with or without EES (Engineering Equation Solver) Problems Disk.

Professor Donald E. Richards of Rose-Hulman Institute of Technology has been added as a co-author for this edition. This widely acclaimed text, now in its sixth edition and translated into many languages, continues to present a clear, simple and concise introduction to chemical thermodynamics. An examination of equilibrium in the everyday world of mechanical objects provides a starting point for an accessible account of the factors that determine equilibrium in chemical systems. This straightforward approach leads students to a thorough understanding of the basic principles of thermodynamics, which are then applied to a wide range of physical chemical systems. The book also discusses the problems of non-ideal solutions and the concept of activity, and provides an introduction to the molecular basis of thermodynamics. Over six editions, the views of teachers of the subject and their students have been incorporated. Reference to the phase rule has been included in this edition and the notation has been revised to conform to current IUPAC recommendations. Students taking courses in thermodynamics will continue to find this popular book an excellent introductory text. Companion to Chemical Thermodynamics accompanies the newly published Chemical Thermodynamics, 6th Edition, a well-known upper-division undergraduate/graduate text on classical thermodynamics. This book covers the principal topics in thermodynamics for officer cadets studying Merchant Navy Marine Engineering Certificates of Competency (CoC) as well as the core syllabi in thermodynamics for undergraduate students in marine engineering, naval architecture and other marine technology related programmes. The book provides a firm foundation in the principals of thermodynamics, decoding the fundamental science and physics applied to marine technology, covering examples of modern machines and practice to reflect current legislation and syllabi. The new edition will provide worked examples and test exam questions, corresponding to current Merchant Navy Qualifications as well as university-style examinations. Where relevant, reference will be made to self-study computer exercises for undertaking multiple calculations in common software, e.g. MS Excel. This key textbook takes into account the varying needs of marine students, recognising recent changes to the Merchant Navy syllabus and current pathways to a sea-going engineering career, including National Diplomas, Higher National Diploma and degree courses. This new

edition of Borgnakke's *Fundamentals of Thermodynamics* continues to offer a comprehensive and rigorous treatment of classical thermodynamics, while retaining an engineering perspective. With concise, applications-oriented discussion of topics and self-test problems, this text encourages students to monitor their own learning. This classic text provides a solid foundation for subsequent studies in fields such as fluid mechanics, heat transfer and statistical thermodynamics, and prepares students to effectively apply thermodynamics in the practice of engineering.

Market_Desc: Engineers
Special Features:

- Provides a broader range of applications in emerging technologies such as energy and the environment, bioengineering, and horizons.
- Emphasizes modeling to support engineering decision-making involving thermodynamics concepts.
- Develops problem-solving skills in three modes: conceptual, skill building, and design.
- Encourages critical thinking and conceptual understanding with the help of exercises and Skills Developed checklists.
- Contains Interactive Thermodynamics software that links realistic images with their related engineering model.

About The Book: In the new sixth edition, readers will learn how to solve thermodynamics problems with the help of a structured methodology, examples and challenging problems. The book's sound problem-solving approach introduces them to concepts, which are then applied to relevant engineering-based situations. The material is presented in an engaging that includes over 200 worked examples, over 1,700 end-of-chapter problems, and numerous illustrations and graphs. Designed as an undergraduate-level textbook in Chemical Engineering, this student-friendly, thoroughly classroom tested book, now in its second edition, continues to provide an in-depth analysis of chemical engineering thermodynamics. The book has been so organized that it gives comprehensive coverage of basic concepts and applications of the laws of thermodynamics in the initial chapters, while the later chapters focus at length on important areas of study falling under the realm of chemical thermodynamics. The reader is thus introduced to a thorough analysis of the fundamental laws of thermodynamics as well as their applications to practical situations. This is followed by a detailed discussion on relationships among thermodynamic properties and an exhaustive treatment on the thermodynamic properties of solutions. The role of phase equilibrium thermodynamics in design, analysis, and operation of chemical separation methods is also deftly dealt with. Finally, the chemical reaction equilibria are skillfully explained. Besides numerous illustrations, the book contains over 200 worked examples, over 400 exercise problems (all with answers) and several objective-type questions, which enable students to gain an in-depth understanding of the concepts and theory discussed. The book will also be a useful text for students pursuing courses in chemical engineering-related branches such as polymer

engineering, petroleum engineering, and safety and environmental engineering. New to This Edition • More Example Problems and Exercise Questions in each chapter • Updated section on Vapour-Liquid Equilibrium in Chapter 8 to highlight the significance of equations of state approach • GATE Questions up to 2012 with answers □ Calculations approach: Strong mathematical rigor has been applied, and a complementary physical treatment given, to make students strong in the applied aspects of thermodynamics □ Problem solving presentation: 195 solved examples and 269 unsolved problems have been given. Hints to difficult problems have been give too. □ Concept checking Review Questions have been given at the end of every chapter □ Coverage on thermodynamic discussion of eutectics, solid solutions and phase separation "The CD contains data and descriptive material for making detailed thermodynamic calculations involving materials processing"--Preface.

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