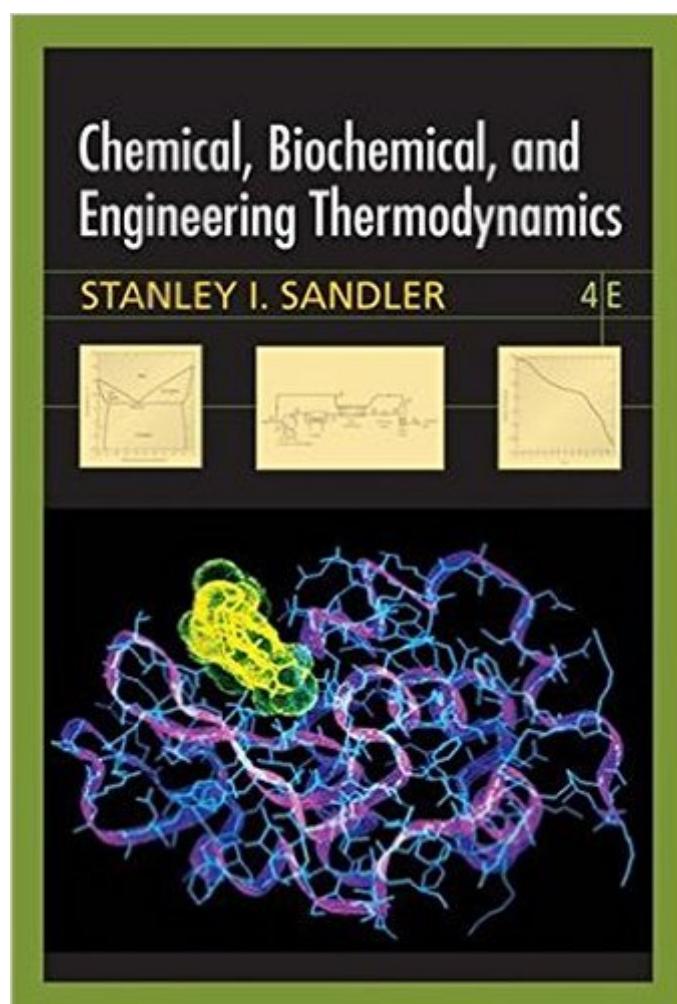


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# Chemical, Biochemical, And Engineering Thermodynamics



## Synopsis

A modern, accessible, and applied approach to chemical thermodynamics Thermodynamics is central to the practice of chemical engineering, yet students sometimes feel that the discipline is too abstract while they are studying the subject. By providing an applied and modern approach, Stanley Sandler's Chemical, Biochemical, and Engineering Thermodynamics, Fourth Edition helps students see the value and relevance of studying thermodynamics to all areas of chemical engineering, and gives them the depth of coverage they need to develop a solid understanding of the key principles in the field. Key Features \* Highlights applications of thermodynamics to subjects that chemical engineering students will see in later courses. \* Realistic problems introduce students to the types of challenges they will encounter in industry and graduate research. \* The Fourth Edition has been reorganized into 15 chapters, providing shorter chapters that introduce students to the subject in more bite-sized pieces. \* Presents biochemical examples, particularly in Chapters 11 and 12, and in all of Chapter 15 entitled "Biochemical Applications of Thermodynamics." \* Coverage of environmental and safety applications of thermodynamics provides course material useful for ABET accreditation. \* Includes a brief introduction to the new field of product engineering in Chapter 12. \* Instructional objectives and nomenclature lists at the beginning of each chapter provide useful study tools. \* Students can solve problems using MATHCAD(r), MATLAB(r) and Visual Basic programs that accompany this textbook. \* An accompanying CD features a 120-day trial version of MATHCAD, as well as MATHCAD worksheets, an extensive properties database, and Windows-friendly Visual Basic and MATLAB programs for equation of state and UNIFAC calculations. (These worksheets and programs are also available online at the book website.) \* Also included on the CD are PDF files of important data figures that students can download and print for use in solving homework problems. [www.wiley.com/college/sandler](http://www.wiley.com/college/sandler)

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If you know more or less what eng and or chem thermo is about and feel more advanced and confident in this subject and do not need/want a 'Book-For-Dummies', then go and purchase the world-wide highly renowned textbook by Stanley I. Sandler. This has now become the definitive standard and top reference in class. It is full of words and formulas, tables, charts and illustrations, examples, problems, diagrams and appendices, all presented in a modern, attractive manner. You can use it as a 'detailed text' or as a 'look-up reference'. Due to the nature of the subject matter, this book is not 'easy': a complete, detailed, thorough book on a hard, dry subject will result in a hard (and dry?) reading for anybody! Nevertheless, the modern, beautiful presentation will make the reader's efforts worthwhile. This is not an "enjoyable" reading as such, but the most in-depth, thorough, detailed, modern treatment for class. I consider this book a must-have reference on your ChemE bookshelf. If you go for \*one\* book only on thermo, then buy Sandler's. rated: Strong Buy for anybody. Even after having mastered this subject, this book will \*still\* serve as a valuable tool: as a detailed ("advanced") intro text and as a fine look-up reference. Sandler's book \*is\* a monograph, and it should be titled "Fundamentals of Chemical Thermodynamics" only, because it does not cover much of "Engineering Thermodynamics" (see books by Moran/Shapiro or Yunus A. Cengel for fantastic intro tomes on eng thermo. see also book by Smith/VanNess/Abbott 2001.). This book is a challenge, but if you are a smart learner and can handle this hard subject matter, there is no better intro or advanced text on chemical thermodynamics, chemical engineering thermodynamics or phase/physical/chemical equilibria!

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