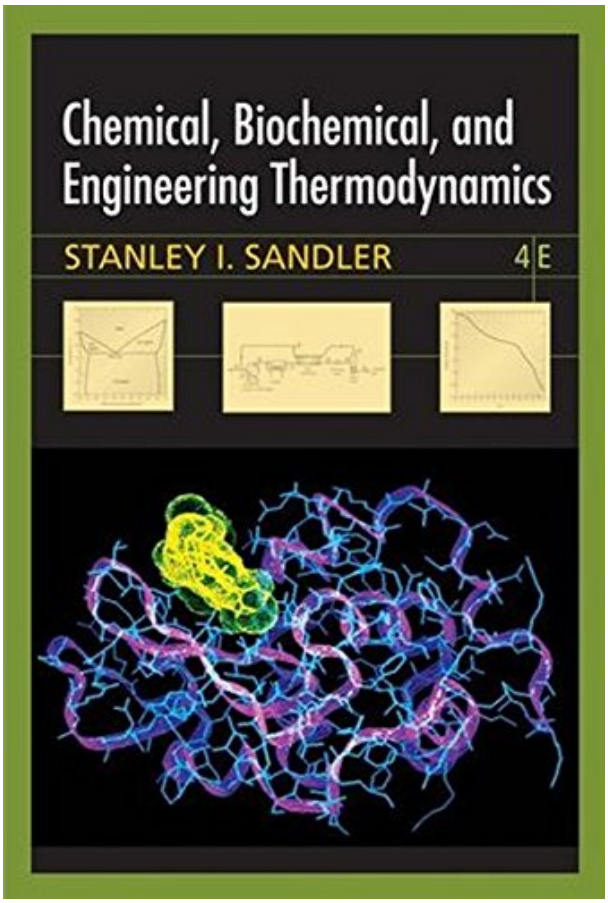
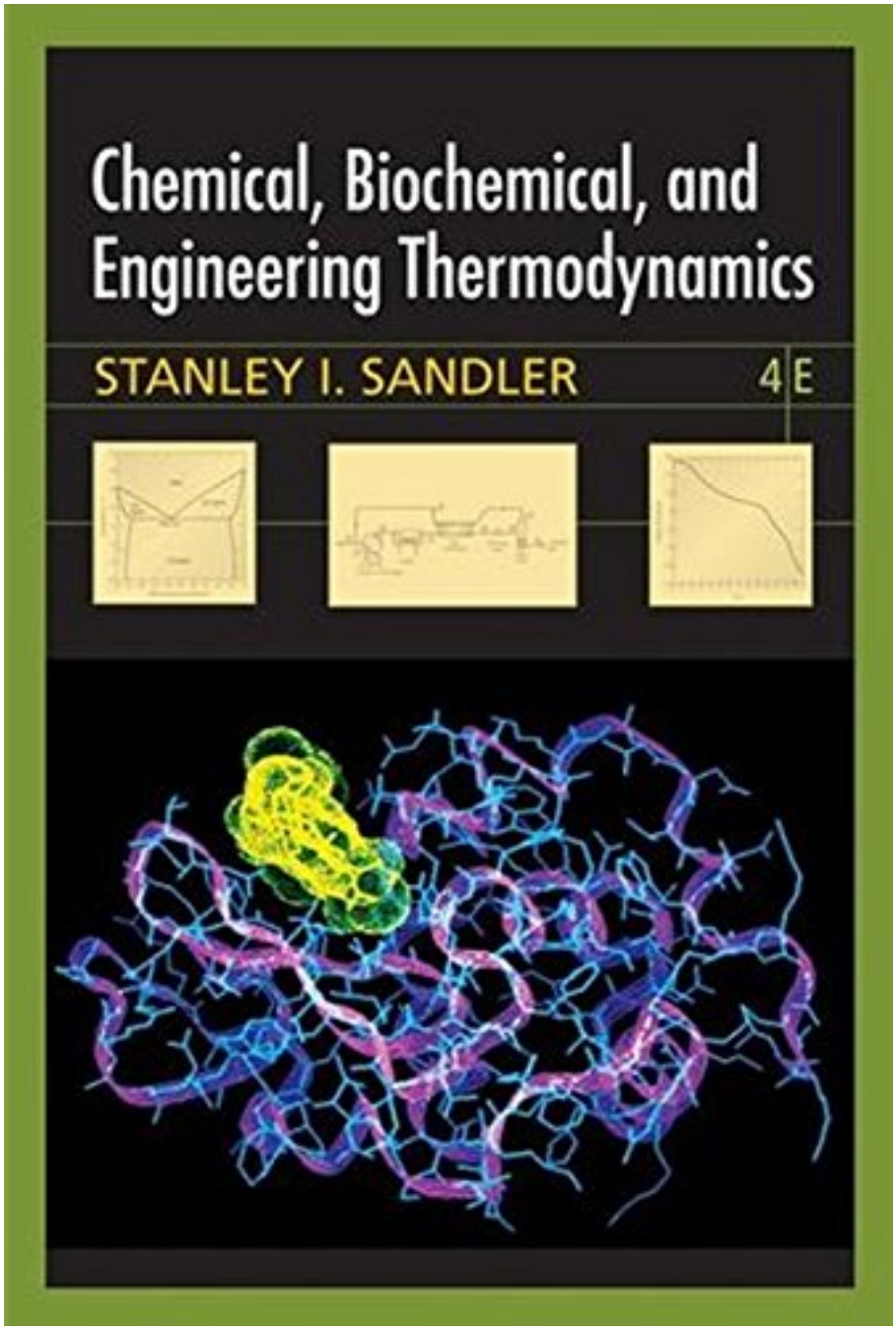
CHEMICAL, BIOCHEMICAL, AND ENGINEERING THERMODYNAMICS BY STANLEY I. SANDLER





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From the Back Cover
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.
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- Students can solve problems using MATHCAD®, MATLAB® 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.
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About the Author

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When you are rushed of task due date and have no idea to obtain motivation, **Chemical, Biochemical, And Engineering Thermodynamics By Stanley I. Sandler** book is among your options to take. Reserve Chemical, Biochemical, And Engineering Thermodynamics By Stanley I. Sandler will offer you the right resource as well as thing to obtain motivations. It is not just about the tasks for politic business, management, economics, and various other. Some bought jobs making some fiction works also need inspirations to conquer the job. As just what you require, this Chemical, Biochemical, And Engineering Thermodynamics By Stanley I. Sandler will probably be your option.

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Okay
By Hasnor Lot
I personally find it very difficult to review this book. The subject matter is particularly hard; thus it could be the case that my inability to grasp the material might render me incapable of a sound judgment of the quality of the book.
When it comes to engineering books, a particular system of units may comes as annoyance to those unfamiliar with it. Prof. Sandler however managed to avoid the indulgence of deluging the book with non-SI units, a certain pitfall many authors fell victim to in their endeavor to expose students to the real-world situations where units don't come nicely in meters and Kelvins. Well, as they say, the road to thermodynamic hell is paved with good intentions.
The derivation of the equations are sufficiently rigorous, and the algebra can be dauntingly so. As someone who appreciates mathematical formalism and rigor, I should find the course satisfying this [interest] of mine. Events did not turn out that way however; when the conceptually simple but algebraically tedious calculation is repeated over and over again with different variables (eg calculating the partial molar property of G, then for H, then for S, etc) one easily becomes stultified; the mind thenceforth approaches the book merely as an exercise in clever manipulation of mathematical symbols. This is most probably not a particular "fault" of this book, but the field itself.
The book took an axiomatic development of thermodynamics; some historical snippets are inserted to help the intuition whenever necessary.
Much to the wisdom of Prof. Sandler, his examples are clear and illustrative of the underlying concept he wishes to clarify; again here he managed to avoid the all-too-common indulgence in "cute" story problems (eg "Your uncle's friend Fred has opened a plant ...") that in some books may span two annoyingly long paragraphs. (I have actually sit for a 50-minute exam where students were expected to extract vital informations from such vague story problems. As expected, the students did not find them funny.)
The last complaint I have for this book is the apparent lack of numerical answers at the back. At least numerical answers would help one check whether the solution worked out is reasonable. I know students who have become frustrated by this absence. The psychological effect is apparent: students, especially those motivated by instant gratification, simply refused to do the work reasoning that it is useless to labor on something without at least having the comforting feeling that one is nearing the answer at each step.

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