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STANLEY I. SANDLER is the H. B. du Pont Professor of Chemical Engineering at the University of Delaware as well as professor of chemistry and biochemistry. He is also ...

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$I H P_{vap} = \exp 14.790 ? T K$ and by the ideal gas law I Solutions to Chemical and Engineering Thermodynamics, 3e $N V RT \times 18 \text{ mol} \times 8.314 \times 10^7 \text{ J} \text{ (bar} ? \text{ m}^3 \text{ mol} \text{ K)}$ $T P = = VV 1 \times 1073 ? (10 ? x) 106$ volume taken up by liquid Equating P and P vap we have $x 18 \times 8.314 \times 1075 T F 5432.8 \times 1$.

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A revised edition of the well-received thermodynamics text, this work retains the thorough coverage and excellent organization that made the first edition so popular. Now incorporates industrially relevant microcomputer programs, with which readers can perform sophisticated thermodynamic calculations, including calculations of the type they will encounter in the lab and in industry. Also provides a unified treatment of phase equilibria. Emphasis is on analysis and prediction of liquid-liquid and vapor-liquid equilibria, solubility of gases and solids in liquids, solubility of liquids and solids in gases and supercritical fluids, freezing point depressions and osmotic equilibria, as well as traditional vapor-liquid and chemical reaction equilibria. Contains many new illustrations and exercises.

A More Accessible Approach to Thermodynamics In this third edition, you'll find a modern approach to applied thermodynamics. The material is presented in sufficient detail to provide a solid understanding of the principles of thermodynamics and its classical applications. Also included are the applications of chemical engineering thermodynamics to issues such as the distribution of chemicals in the environment, safety, polymers, and solid-state-processing. To make thermodynamics more accessible, several helpful features are included. Important concepts are emphasized in marginal notes throughout each chapter. Illustrations have also been added to demonstrate the use of these concepts and to provide a better understanding of the material. Boxes are used to highlight equations so that students can easily identify the end results of analyses. You can also visit the text's web site to download additional problem sets, computer programs to solve thermodynamic and phase behavior problems, and Mathcad(r) worksheets used for problem solving.

Chemical, Biochemical, and Engineering Thermodynamics ...

Building up gradually from first principles, this unique introduction to modern thermodynamics integrates classical, statistical and molecular approaches and is especially designed to support students studying chemical and biochemical engineering. In addition to covering traditional problems in engineering thermodynamics in the context of biology and materials chemistry, students are also introduced to the thermodynamics of DNA, proteins, polymers and surfaces. It includes over 80 detailed worked examples, covering a broad range of scenarios such as fuel cell efficiency, DNA/protein binding, semiconductor manufacturing and polymer foaming, emphasizing the practical real-world applications of thermodynamic principles; more than 300 carefully tailored homework problems, designed to stretch and extend students' understanding of key topics, accompanied by an online solution manual for instructors; and all the necessary mathematical background, plus resources summarizing commonly used symbols, useful equations of state, microscopic balances for open systems, and links to useful online tools and datasets.

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One of the goals of An Introduction to Applied Statistical Thermodynamics is to introduce readers to the fundamental ideas and engineering uses of statistical thermodynamics, and the equilibrium part of the statistical mechanics. This text emphasises on nano and bio technologies, molecular level descriptions and understandings offered by statistical mechanics. It provides an introduction to the simplest forms of Monte Carlo and molecular dynamics simulation (albeit only for simple spherical molecules) and user-friendly MATLAB programs for doing such simulations, and also some other calculations. The purpose of this text is to provide a readable introduction to statistical thermodynamics, show its utility and the way the results obtained lead to useful generalisations for practical application. The text also illustrates the difficulties that arise in the statistical thermodynamics of dense fluids as seen in the discussion of liquids.

This book covers the fundamentals of the rapidly growing field of biothermodynamics, showing how thermodynamics can best be applied to applications and processes in biochemical engineering. It describes the rigorous application of thermodynamics in biochemical engineering to rationalize bioprocess development and obviate a substantial fraction of this need for tedious experimental work. As such, this book will appeal to a diverse group of readers, ranging from students and professors in biochemical engineering, to scientists and engineers, for whom it will be a valuable reference.

A step-by-step guide for students (and faculty) on the use of Aspen in teaching thermodynamics • Easily-accessible modern computational techniques opening up new vistas in teaching thermodynamics A range of applications of Aspen Plus in the prediction and calculation of thermodynamic properties and phase behavior using the state-of-the art methods • Encourages students to develop engineering insight by doing repetitive calculations with changes in parameters and/or models • Calculations and application examples in a step-by-step manner designed for out-of-classroom self-study • Makes it possible to easily integrate Aspen Plus into thermodynamics courses without using in-class time • Stresses the application of thermodynamics to real problems

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