

A blower handles 1 kg/s of air at 20°C and consumes a power of 15 kW. The inlet and outlet velocities of air are 100 m/s and 150 m/s respectively. Find the exit air temperature, assuming adiabatic conditions. Take  $c_p$  of air as 1.005 kJ/kg-K.

$$\dot{m}_1 = \dot{m}_2 = \dot{m} = 1 \text{ kg/s}$$

$$t_1 = 20^\circ\text{C}$$

$$\dot{W}_2 = -15 \text{ kW}$$

$$V_1 = 100 \text{ m/s}$$

$$V_2 = 150 \text{ m/s}$$

$$t_2 = ?$$

$$Q = 0$$

$$c_p = 1.005 \text{ kJ/kg-K}$$

$$\dot{Q}_{gen} = \dot{m} c_p (t_2 - t_1)$$

$$\dot{Q}_{gen} = h_2 - h_1$$

$$h_1 + \frac{V_1^2}{2} + g z_1 + \frac{Q}{\dot{m}} = h_2 + \frac{V_2^2}{2} + g z_2 + \frac{\dot{W}_2}{\dot{m}}$$

$$h_1 + \frac{100^2}{2} + 9.81 z_1 + 0 = h_2 + \frac{150^2}{2} + 9.81 z_1 + \left( \frac{-15000}{1} \right)$$

$$h_2 - h_1 = \dot{Q}_{gen} = 8750 \text{ W}$$



# First Law Of Thermodynamics Problems Solutions

**Y Pai**



## **First Law Of Thermodynamics Problems Solutions:**

Problems in Chemical Thermodynamics with Solutions Maka Aleksishvili, Shota Sidamonidze, 2002 The methods of chemical thermodynamics are effectively used in many fields of science and technology Mastering these methods and their use in practice requires profound comprehension of the theoretical questions and acquisition of certain calculating skills This book is useful to undergraduate and graduate students in chemistry as well as chemical thermal and refrigerating technology it will also benefit specialists in all other fields who are interested in using these powerful methods in their practical activities

**Student Solutions Manual for Tipler and Mosca's Physics for Scientists and Engineers, Sixth Edition: Chapters 1-20** Todd Ruskell, 2008 *Solutions Manual for Quanta, Matter and Change* Peter Atkins, Julio dePaula, Ron

Friedman, 2008-12-15 **Introduction To Classical Mechanics: Solutions To Problems** John Dirk Walecka, 2020-08-24

The textbook Introduction to Classical Mechanics aims to provide a clear and concise set of lectures that take one from the introduction and application of Newton's laws up to Hamilton's principle of stationary action and the lagrangian mechanics of continuous systems An extensive set of accessible problems enhances and extends the coverage It serves as a prequel to the author's recently published book entitled Introduction to Electricity and Magnetism based on an introductory course taught some time ago at Stanford with over 400 students enrolled Both lectures assume a good concurrent course in calculus and familiarity with basic concepts in physics the development is otherwise self contained As an aid for teaching and learning and as was previously done with the publication of Introduction to Electricity and Magnetism Solutions to Problems this additional book provides the solutions to the problems in the text Introduction to Classical Mechanics **Solved Problems**

**in Quantum and Statistical Mechanics** Michele Cini, Francesco Fucito, Mauro Sbragaglia, 2012-03-30 This textbook is the result of many years of teaching quantum and statistical mechanics drawing on exercises and exam papers used on courses taught by the authors The subjects of the exercises have been carefully selected to cover all the material which is most needed by students Each exercise is carefully solved in full details explaining the theory behind the solution with particular care for those issues that students often find difficult or which are often neglected in other books on the subject The exercises in this book never require extensive calculations but tend to be somewhat unusual and force the solver to think about the problem starting from first principles rather than by analogy with some previously solved exercise *300 Creative Physics Problems with Solutions* Laszlo Holics, 2011 This collection of exercises compiled for talented high school students encourages creativity and a deeper understanding of ideas when solving physics problems Described as far beyond high school level this book grew out of the idea that teaching should not aim for the merely routine but challenge pupils and stretch their ability through creativity and thorough comprehension of ideas **Problems and Solutions on**

**Thermodynamics and Statistical Mechanics** Yung-kuo Lim, 1990 Volume 5 **Thermodynamics Problem Solving in Physical Chemistry** Kathleen E. Murphy, 2020-03-23 Thermodynamics Problem Solving in Physical Chemistry Study Guide

and Map is an innovative and unique workbook that guides physical chemistry students through the decision making process to assess a problem situation create appropriate solutions and gain confidence through practice solving physical chemistry problems The workbook includes six major sections with 20 30 solved problems in each section that span from easy single objective questions to difficult multistep analysis problems Each section of the workbook contains key points that highlight major features of the topic to remind students of what they need to apply to solve problems in the topic area Key Features Provides instructor access to a visual map depicting how all equations used in thermodynamics are connected and how they are derived from the three major energy laws Acts as a guide in deriving the correct solution to a problem Illustrates the questions students should ask themselves about the critical features of the concepts to solve problems in physical chemistry Can be used as a stand alone product for review of Thermodynamics questions for major tests

**Physics—Problems, Solutions, and Computer Calculations** Wan Muhamad Saridan Wan Hassan, 2023-11-06 Knowledge of and skill in physics are essential foundations for studies in science and engineering This book offers students an introduction to the basic concepts and principles of physics It covers various topics specifically related to physical mechanics the properties of matter and heat Each chapter begins with a summary of concepts principles definitions and formulae to be discussed as well as ending with problems and solutions that illustrate the specific topic Steps are detailed to help build reasoning and understanding There are 300 worked problems and 100 exercises in the book as well as 306 figures to help the reader visualize the processes being addressed Computer calculations and solutions are carried out using wxMaxima to give insight and help build computational skills The book is aimed at first year undergraduate students studying introductory physics and would also be useful for physics teachers in their instruction particularly the exercises at the end of each chapter

Problems In General Physics By IE Irodov's Vol-I DB Singh, 2018-08-13 Irodov is renowned for developing the problem based skills in physics Almost every engineer students prefer to go through Irodov s Problems due to its unmatched pedagogies enhancing the conceptual clarity and ultimately raising the confidence level of aspirants to perform better in their exams Solutions to IRODOV S Problems in General PHYSICS has been revised to teach the solutions to the most difficult and trickiest questions of Physics Various methodologies shown in the book stimulate the intellect of the students to work out the concept based problems by strengthening the fundamentals of the Physics Volume 1 is segregated into two parts promoting the problem based skill in the topics of Mechanics Thermodynamics and Molecular Physics For all the aspirants of Engineering Entrances IIT JEE etc this classic book is a great source to build up the confidence and those who are seeking to participate in Physics Olympiad this book equally serves best to them as well Table of Contents Part I Mechanics Kinematics The Fundamental Equation of Dynamics Laws of Conservation of Energy Momentum and Angular Momentum Universal Gravitation Dynamics of a Solid Body Elastic Deformation of a Solid Body Hydrodynamics Relativistic Mechanism Part II Thermodynamics and Molecular Physics Equation of the Gas State Processes The First Law of

Thermodynamics Heat Capacity Kinetic Theory of Gases Boltzmann's Law and Maxwell's Distribution The Second Law of Thermodynamics Entropy Liquids Capillary Effects Phase Transformations Transport Phenomena *Modern Engineering Thermodynamics - Textbook with Tables Booklet* Robert T. Balmer, 2011-01-03 Modern Engineering Thermodynamics Textbook with Tables Booklet offers a problem solving approach to basic and applied engineering thermodynamics with historical vignettes critical thinking boxes and case studies throughout to help relate abstract concepts to actual engineering applications It also contains applications to modern engineering issues This textbook is designed for use in a standard two semester engineering thermodynamics course sequence with the goal of helping students develop engineering problem solving skills through the use of structured problem solving techniques The first half of the text contains material suitable for a basic Thermodynamics course taken by engineers from all majors The second half of the text is suitable for an Applied Thermodynamics course in mechanical engineering programs The Second Law of Thermodynamics is introduced through a basic entropy concept providing students a more intuitive understanding of this key course topic Property Values are discussed before the First Law of Thermodynamics to ensure students have a firm understanding of property data before using them Over 200 worked examples and more than 1 300 end of chapter problems provide an extensive opportunity to practice solving problems For greater instructor flexibility at exam time thermodynamic tables are provided in a separate accompanying booklet University students in mechanical chemical and general engineering taking a thermodynamics course will find this book extremely helpful Provides the reader with clear presentations of the fundamental principles of basic and applied engineering thermodynamics Helps students develop engineering problem solving skills through the use of structured problem solving techniques Introduces the Second Law of Thermodynamics through a basic entropy concept providing students a more intuitive understanding of this key course topic Covers Property Values before the First Law of Thermodynamics to ensure students have a firm understanding of property data before using them Over 200 worked examples and more than 1 300 end of chapter problems offer students extensive opportunity to practice solving problems Historical Vignettes Critical Thinking boxes and Case Studies throughout the book help relate abstract concepts to actual engineering applications For greater instructor flexibility at exam time thermodynamic tables are provided in a separate accompanying booklet **Energy Studies - Problems And Solutions** William Shepherd, David William Shepherd, 2008-11-10 A natural complement to the book Energy Studies by the same authors this book contains solutions to 370 existing and new problems many with illustrations and updated Tables of Data on fuel supply Energy Studies considers the various options of renewable energy including water energy wind energy and biomass solar thermal and solar photovoltaic energy And should the nuclear option remain open The book examines the environmental implications and economic viability of all fossil and renewable sources introduces more distant future options of geothermal energy and nuclear fusion and discusses a near future energy strategy **Introduction To Statistical Mechanics: Solutions To**

**Problems** John Dirk Walecka, 2016-08-25 Statistical mechanics is concerned with defining the thermodynamic properties of a macroscopic sample in terms of the properties of the microscopic systems of which it is composed. The previous book *Introduction to Statistical Mechanics* provided a clear logical and self-contained treatment of equilibrium statistical mechanics starting from Boltzmann's two statistical assumptions and presented a wide variety of applications to diverse physical assemblies. An appendix provided an introduction to non-equilibrium statistical mechanics through the Boltzmann equation and its extensions. The coverage in that book was enhanced and extended through the inclusion of many accessible problems. The current book provides solutions to those problems. These texts assume only introductory courses in classical and quantum mechanics as well as familiarity with multi-variable calculus and the essentials of complex analysis. Some knowledge of thermodynamics is also assumed, although the analysis starts with an appropriate review of that topic. The targeted audience is first-year graduate students and advanced undergraduates in physics, chemistry, and the related physical sciences. The goal of these texts is to help the reader obtain a clear working knowledge of the very useful and powerful methods of equilibrium statistical mechanics and to enhance the understanding and appreciation of the more advanced texts.

*Energy and Entropy* Michael E. Starzak, 2010-01-06 The study of thermodynamics is often limited to classical thermodynamics where minimal laws and concepts lead to a wealth of equations and applications. The resultant equations best describe systems at equilibrium with no temporal or spatial parameters. The equations do, however, often provide accurate descriptions for systems close to equilibrium. Statistical thermodynamics produces the same equilibrium information starting with the microscopic properties of the atoms or molecules in the system that correlates with the results from macroscopic classical thermodynamics. Because both these disciplines develop a wealth of information from a few starting postulates, e.g., the laws of thermodynamics, they are often introduced as independent disciplines. However, the concepts and techniques developed for these disciplines are extremely useful in many other disciplines. This book is intended to provide an introduction to these disciplines while revealing the connections between them. Chemical kinetics uses the statistics and probabilities developed for statistical thermodynamics to explain the evolution of a system to equilibrium. Irreversible thermodynamics, which is developed from the equations of classical thermodynamics, centers on distance-dependent forces and time-dependent fluxes. The flux equations of irreversible thermodynamics lead to equations generated from the intensive and extensive variables of classical thermodynamics. These flux equations lead in turn to transport equations such as Fick's first law of diffusion and the Nernst-Planck equation for electrochemical transport. The book illustrates the concepts using some simple examples.

*US Solutions Manual to Accompany Elements of Physical Chemistry 7e* David Smith, 2017-09-28 The Solutions Manual to *Accompany Elements of Physical Chemistry* 7th edition contains full worked solutions to all end-of-chapter discussion questions and exercises featured in the book. The manual provides helpful comments and friendly advice to aid understanding. It is also a valuable resource for any lecturer who wishes to use the extensive selection of exercises featured in the text to

support either formative or summative assessment and wants labour saving ready access to the full solutions to these questions

**Engineering Energy Storage** Odne Stokke Burheim, 2017-07-26 Engineering Energy Storage explains the engineering concepts of different relevant energy technologies in a coherent manner assessing underlying numerical material to evaluate energy power volume weight and cost of new and existing energy storage systems With numerical examples and problems with solutions this fundamental reference on engineering principles gives guidance on energy storage devices setting up energy system plans for smart grids Designed for those in traditional fields of science and professional engineers in applied industries with projects related to energy and engineering this book is an ideal resource on the topic Contains chapter based numerical examples with applied industry problems and solutions Assesses underlying numerical material for evaluating energy power volume weight and cost of new and existing energy storage systems Offers a cross disciplinary look across electrical mechanical and chemical engineering aspects of energy storage **(Free Sample)**

**GO TO Objective NEET Physics Guide with DPP & CPP Sheets 9th Edition** Disha Experts, 2021-10-05 The thoroughly revised updated 9th Edition of Go To Objective NEET Physics is developed on the objective pattern following the chapter plan as per the NCERT books of class 11 and 12 The book has been rebranded as GO TO keeping the spirit with which this edition has been designed The complete book has contains 28 Chapters In the new structure the book is completely revamped with every chapter divided into 2 4 Topics Each Topic contains Study Notes along with a DPP Daily Practice Problem of 15 20 MCQs This is followed by a Revision Concept Map at the end of each chapter The theory also includes Illustrations Problem Solving Tips The theory is followed by a set of 2 Exercises for practice The first exercise is based on Concepts Application It also covers NCERT based questions This is followed by Exemplar past 8 year NEET 2013 2021 questions In the end of the chapter a CPP Chapter Practice Problem Sheet of 45 Quality MCQs is provided The solutions to all the questions have been provided immediately at the end of each chapter

**Lectures in Classical Thermodynamics with an Introduction to Statistical Mechanics** Daniel Blankschtein, 2021-03-15 This textbook facilitates students ability to apply fundamental principles and concepts in classical thermodynamics to solve challenging problems relevant to industry and everyday life It also introduces the reader to the fundamentals of statistical mechanics including understanding how the microscopic properties of atoms and molecules and their associated intermolecular interactions can be accounted for to calculate various average properties of macroscopic systems The author emphasizes application of the fundamental principles outlined above to the calculation of a variety of thermodynamic properties to the estimation of conversion efficiencies for work production by heat interactions and to the solution of practical thermodynamic problems related to the behavior of non ideal pure fluids and fluid mixtures including phase equilibria and chemical reaction equilibria The book contains detailed solutions to many challenging sample problems in classical thermodynamics and statistical mechanics that will help the reader crystallize the material taught Class tested and perfected over 30 years of use by nine time Best Teaching Award recipient Professor Daniel

Blankschtein of the Department of Chemical Engineering at MIT the book is ideal for students of Chemical and Mechanical Engineering Chemistry and Materials Science who will benefit greatly from in depth discussions and pedagogical explanations of key concepts Distills critical concepts methods and applications from leading full length textbooks along with the author s own deep understanding of the material taught into a concise yet rigorous graduate and advanced undergraduate text Enriches the standard curriculum with succinct problem based learning strategies derived from the content of 50 lectures given over the years in the Department of Chemical Engineering at MIT Reinforces concepts covered with detailed solutions to illuminating and challenging homework problems      *Chemistry for Degree Students B.Sc. (Honours) Semester II, 1/e (As per CBCS)* Madan R.L.,2022 This textbook has been designed to meet the needs of B Sc Honours Second Semester students of Chemistry as per the UGC Choice Based Credit System CBCS Maintaining the traditional approach to the subject this textbook lucidly explains the basics of Organic and Physical Chemistry Important topics such as alkanes alkenes alkynes stereochemistry aliphatic hydrocarbons thermochemistry chemical thermodynamics and chemical equilibrium are aptly discussed to give an overview of organic and physical chemistry Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures      Introduction To General Relativity: Solutions To Problems John Dirk Walecka,2017-06-16 It is important for every physicist today to have a working knowledge of Einstein s theory of general relativity Introduction to General Relativity published in 2007 was aimed at first year graduate students or advanced undergraduates in physics Only a basic understanding of classical lagrangian mechanics is assumed beyond that the reader should find the material to be self contained The mechanics problem of a point mass constrained to move without friction on a two dimensional surface of arbitrary shape serves as a paradigm for the development of the mathematics and physics of general relativity Special relativity is reviewed The basic principles of general relativity are then presented and the most important applications are discussed The final special topics section takes the reader up to a few areas of current research An extensive set of accessible problems enhances and extends the coverage As a learning and teaching tool this current book provides solutions to those problems This text and solutions manual are meant to provide an introduction to the subject It is hoped that these books will allow the reader to approach the more advanced texts and monographs as well as the continual influx of fascinating new experimental results with a deeper understanding and sense of appreciation



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