

Introduction To Thermal Physics Schroeder Solutions Manual

This introductory textbook for standard undergraduate courses in thermodynamics has been completely rewritten to explore a greater number of topics, more clearly and concisely. Starting with an overview of important quantum behaviours, the book teaches students how to calculate probabilities in order to provide a firm foundation for later chapters. It introduces the ideas of classical thermodynamics and explores them both in general and as they are applied to specific processes and interactions. The remainder of the book deals with statistical mechanics. Each topic ends with a boxed summary of ideas and results, and every chapter contains numerous homework problems, covering a broad range of difficulties. Answers are given to odd-numbered problems, and solutions to even-numbered problems are available to instructors at www.cambridge.org/9781107694927.

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"The idea of "Zero-Waste Engineering" has been developing over years, in many areas of engineering, such as energy production (renewable energy), construction (green buildings), and many others. This book is a huge step in the continued march toward truly sustainable engineering practices. This book presents methods in various areas for sustainability purposes, such as new mathematical models, recyclable material selection, and renewable energy. Engineers and

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scientists of all industries will benefit from these principles of zero-waste engineering and how it applies to construction, energy production, and many other areas of engineering"--

In the 300 years since Newton's seminal work, physics has explained many things that used to be mysterious. Particularly in the last century, physics has addressed a range of questions, from the smallest fundamental particles to the large-scale structure and history of the entire universe. But there are always more questions. Suitable for a wide audience, *Commonly Asked Questions in Physics* covers a broad scope of subjects, from classical physics that goes back to the age of Newton to new ideas just formulated in the twenty-first century. The book highlights the core areas of physics that predate the twentieth century, including mechanics, electromagnetism, optics, and thermodynamics. It also focuses on modern physics, covering quantum mechanics, atomic and nuclear physics, fundamental particles, and relativity. Each chapter explains the numbers and units used to measure things and some chapters include a "Going Deeper" feature that provides more mathematical details for readers who are up to the challenge. The suggested readings at the end of each chapter range from classic textbooks to some of the best books written for the general public, offering readers the option to study the topic in more depth. Physics affects our lives nearly every day—using cell phones, taking x-rays, and much more. Keeping the mathematics at a very basic level, this accessible book addresses many physics questions frequently posed by physics students,

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scientists in other fields, and the wider public.

This status report features the most recent developments in the field, spanning a wide range of topical areas in the computer simulation of condensed matter/materials physics. Highlights of this volume include various aspects of non-equilibrium statistical mechanics, studies of properties of real materials using both classical model simulations and electronic structure calculations, and the use of computer simulation in teaching.

This book presents the theory of soft matter to students at the advanced undergraduate or beginning graduate level. It provides a basic introduction to theoretical physics as applied to soft matter, explaining the concepts of symmetry, broken symmetry, and order parameters; phases and phase transitions; mean-field theory; and the mathematics of variational calculus and tensors. It is written in an informal, conversational style, which is accessible to students from a diverse range of backgrounds. The book begins with a simple “toy model” to demonstrate the physical significance of free energy. It then introduces two standard theories of phase transitions—the Ising model for ferromagnetism and van der Waals theory of gases and liquids—and uses them to illustrate principles of statistical mechanics. From those examples, it moves on to discuss order, disorder, and broken symmetry in many states of matter, and to explain the theoretical methods that are used to model the phenomena. It concludes with a chapter on liquid crystals, which brings together all of these physical and mathematical concepts. The book is accompanied online by a set of “interactive figures”—some allow readers to

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change parameters and see what happens to a graph, some allow readers to rotate a plot or other graphics in 3D, and some do both. These interactive figures help students to develop their intuition for the physical meaning of equations. This book will prepare advanced undergraduate or early graduate students to go into more advanced theoretical studies. It will also equip students going into experimental soft matter science to be fully conversant with the theoretical aspects and have effective collaborations with theorists.

Plant Cell Biology is a semester long course for undergraduates and graduate students which integrates mathematics and physics, two years of chemistry, genetics, biochemistry and evolution disciplines. Having taught this course for over ten years, the author uses his expertise to relate the background established in plant anatomy, plant physiology, plant growth and development, plant taxonomy, plant biochemistry, and plant molecular biology courses to plant cell biology. This integration attempts to break down the barrier so plant cell biology is seen as an entrée into higher science. Distinguishing this book from papers that are often used for teaching the subject which use a single plant to demonstrate the techniques of molecular biology, this book covers all aspects of plant cell biology without emphasizing any one plant, organelle, molecule, or technique. Although most examples are biased towards plants, basic similarities between all living eukaryotic cells (animal and plant) are recognized and used to best illustrate for students cell processes. Thoroughly explains the physiological underpinnings of biological

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processes to bring original insight related to plants
Includes examples throughout from physics, chemistry,
geology, and biology to bring understanding to plant cell
development, growth, chemistry and diseases Provides
the essential tools for students to be able to evaluate and
assess the mechanisms involved in cell growth,
chromosome motion, membrane trafficking, and energy
exchange Companion Web site provides support for all
plant cell biology courses

This comprehensive book on Nanoclusters comprises
sixteen authoritative chapters written by leading
researchers in the field. It provides insight into topics that
are currently at the cutting edge of cluster science, with
the main focus on metal and metal compound systems
that are of particular interest in materials science, and
also on aspects related to biology and medicine. While
there are numerous books on clusters, the focus on
clusters as a bridge across disciplines sets this book
apart from others. Delivers cutting edge coverage of
cluster science Covers a broad range of topics in
physics, chemistry, and materials science Written by
leading researchers in the field

In this book, physics in its many aspects
(thermodynamics, mechanics, electricity, fluid
dynamics) is the guiding light on a fascinating
journey through biological systems, providing ideas,
examples and stimulating reflections for
undergraduate physics, chemistry and life-science
students, as well as for anyone interested in the
frontiers between physics and biology. Rather than

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introducing a lot of new information, it encourages young students to use their recently acquired knowledge to start seeing the physics behind the biology. As an undergraduate textbook in introductory biophysics, it includes the necessary background and tools, including exercises and appendices, to form a progressive course. In this case, the chapters can be used in the order proposed, possibly split between two semesters. The book is also an absorbing read for researchers in the life sciences who wish to refresh or go deeper into the physics concepts gleaned in their early years of scientific training. Less physics-oriented readers might want to skip the first chapter, as well as all the "gray boxes" containing the more formal developments, and create their own *à-la-carte* menu of chapters.

Many regard Albert Einstein as the greatest physicist since Newton. What exactly did he do that is so important in physics? We provide an introduction to his physics at a level accessible to an undergraduate physics student. All equations are worked out in detail from the beginning. Einstein's doctoral thesis and his Brownian motion paper were decisive contributions to our understanding of matter as composed of molecules and atoms. Einstein was one of the founding fathers of quantum theory: his photon proposal through the investigation of blackbody radiation, his quantum theory of

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photoelectric effect and specific heat, his calculation of radiation fluctuation giving the first statement of wave-particle duality, his introduction of probability in the description of quantum radiative transitions, and finally the quantum statistics and Bose-Einstein condensation. Einstein's special theory of relativity gave us the famous $E=mc^2$ relation and the new kinematics leading to the idea of the 4-dimensional spacetime as the arena in which physical events take place. Einstein's geometric theory of gravity, general relativity, extends Newton's theory to time-dependent and strong gravitational fields. It laid the ground work for the study of black holes and cosmology. This is a physics book with material presented in the historical context. We do not stop at Einstein's discovery, but carry the discussion onto some of the later advances: Bell's theorem, quantum field theory, gauge theories and Kaluza-Klein unification in a spacetime with an extra spatial dimension. Accessibility of the material to a modern-day reader is the goal of our presentation. Although the book is written with primarily a physics readership in mind (it can also function as a textbook), enough pedagogical support material is provided that anyone with a solid background in introductory physics can, with some effort, understand a good part of this presentation. Concepts and relationships in thermal and statistical physics form the foundation for describing systems

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consisting of macroscopically large numbers of particles. Developing microscopic statistical physics and macroscopic classical thermodynamic descriptions in tandem, *Statistical and Thermal Physics: An Introduction* provides insight into basic concepts at an advanced undergraduate level. Highly detailed and profoundly thorough, this comprehensive introduction includes exercises within the text as well as end-of-chapter problems. The first section of the book covers the basics of equilibrium thermodynamics and introduces the concepts of temperature, internal energy, and entropy using ideal gases and ideal paramagnets as models. The chemical potential is defined and the three thermodynamic potentials are discussed with use of Legendre transforms. The second section presents a complementary microscopic approach to entropy and temperature, with the general expression for entropy given in terms of the number of accessible microstates in the fixed energy, microcanonical ensemble. The third section emphasizes the power of thermodynamics in the description of processes in gases and condensed matter. Phase transitions and critical phenomena are discussed phenomenologically. In the second half of the text, the fourth section briefly introduces probability theory and mean values and compares three statistical ensembles. With a focus on quantum statistics, the fifth section reviews the quantum

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distribution functions. Ideal Fermi and Bose gases are considered in separate chapters, followed by a discussion of the "Planck" gas for photons and phonons. The sixth section deals with ideal classical gases and explores nonideal gases and spin systems using various approximations. The final section covers special topics, specifically the density matrix, chemical reactions, and irreversible thermodynamics.

This classic text has been used in over 20 countries by advanced undergraduate and beginning graduate students in biophysics, physiology, medical physics, neuroscience, and biomedical engineering. It bridges the gap between an introductory physics course and the application of physics to the life and biomedical sciences. Extensively revised and updated, the fifth edition incorporates new developments at the interface between physics and biomedicine. New coverage includes cyclotrons, photodynamic therapy, color vision, x-ray crystallography, the electron microscope, cochlear implants, deep brain stimulation, nanomedicine, and other topics highlighted in the National Research Council report BIO2010. As with the previous edition, the first half of the text is primarily biological physics, emphasizing the use of ideas from physics to understand biology and physiology, and the second half is primarily medical physics, describing the use of physics in medicine for diagnosis (mainly imaging)

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and therapy. Prior courses in physics and in calculus are assumed. Intermediate Physics for Medicine and Biology is also ideal for self study and as a reference for workers in medical and biological research. Over 850 problems test and enhance the student's understanding and provide additional biological examples. A solutions manual is available to instructors. Each chapter has an extensive list of references.

A modern approach to mathematical modeling, featuring unique applications from the field of mechanics *An Introduction to Mathematical Modeling: A Course in Mechanics* is designed to survey the mathematical models that form the foundations of modern science and incorporates examples that illustrate how the most successful models arise from basic principles in modern and classical mathematical physics. Written by a world authority on mathematical theory and computational mechanics, the book presents an account of continuum mechanics, electromagnetic field theory, quantum mechanics, and statistical mechanics for readers with varied backgrounds in engineering, computer science, mathematics, and physics. The author streamlines a comprehensive understanding of the topic in three clearly organized sections: *Nonlinear Continuum Mechanics* introduces kinematics as well as force and stress in deformable bodies; mass and momentum; balance of linear and

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angular momentum; conservation of energy; and constitutive equations Electromagnetic Field Theory and Quantum Mechanics contains a brief account of electromagnetic wave theory and Maxwell's equations as well as an introductory account of quantum mechanics with related topics including ab initio methods and Spin and Pauli's principles Statistical Mechanics presents an introduction to statistical mechanics of systems in thermodynamic equilibrium as well as continuum mechanics, quantum mechanics, and molecular dynamics Each part of the book concludes with exercise sets that allow readers to test their understanding of the presented material. Key theorems and fundamental equations are highlighted throughout, and an extensive bibliography outlines resources for further study. Extensively class-tested to ensure an accessible presentation, An Introduction to Mathematical Modeling is an excellent book for courses on introductory mathematical modeling and statistical mechanics at the upper-undergraduate and graduate levels. The book also serves as a valuable reference for professionals working in the areas of modeling and simulation, physics, and computational engineering.

Winner of an Outstanding Academic Title Award from CHOICE Magazine The result of more than 15 years of lectures in plasma sciences presented at universities in Denmark, Norway, and the United

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States, Waves and Oscillations in Plasmas addresses central issues in modern plasma sciences. The book covers fluid models as well as kinetic plasma models, including a detailed discussion of, for instance, collisionless Landau damping. Offering a clear separation of linear and nonlinear models, the book can be tailored for readers of varying levels of expertise. Designed to provide basic training in linear as well as nonlinear plasma dynamics, and practical in areas as diverse as the space sciences, laboratory experiments, plasma processing, and more, this book includes: Sections on basic experimental methods, facilitating students' appreciation of experimental results from laboratory and space plasmas Elements of electromagnetic field theory, fluid mechanics, and wave dynamics, including features of nonlinear wave analysis Basic mathematical tools and other relevant material are summarized in Appendices Exercises as well as short sections that can be used for student presentations A comprehensive reference list reviewing classic papers and notable texts in the field Waves and Oscillations in Plasmas provides a solid foundation in basic plasma physics and its applications, giving a practical introduction to more advanced methods as well. Including simple physical interpretations where possible, this comprehensive, classroom-tested book places plasma sciences in the logical context of general classical physics.

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"This textbook addresses the key questions in both classical thermodynamics and statistical thermodynamics: Why are the thermodynamic properties of a nano-sized system different from those of a macroscopic system of the same substance? Why and how is entropy defined in thermodynamics, and how is the entropy change calculated when dissipative heat is involved? What is an ensemble and why is its theory so successful?"

"Translated from a highly successful Chinese book, this expanded English edition contains many updated sections and several new ones. They include the introduction of the grand canonical ensemble, the grand partition function and its application to ideal quantum gases, a discussion of the mean field theory of the Ising model and the phenomenon of ferromagnetism, as well as a more detailed discussion of ideal quantum gases near $T = 0$, for both Fermi and Bose gases."--BOOK JACKET.

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An Introduction to Thermal Physics Oxford University Press, USA

Physical Biology of the Cell is a textbook for a first course in physical biology or biophysics for undergraduate or graduate students. It maps the huge and complex landscape of cell and molecular biology from the distinct perspective of physical biology. As a key organizing principle, the proximity of topics is based on the physical concepts that
Designed for biology, physics, and medical students,

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Introductory Biophysics: Perspectives on the Living State, provides a comprehensive overview of the complex subject of biological physics. The companion CD-ROM (eBook version does not include the CD-ROM), with MATLAB examples and the student version of QuickField™, allows the student to perform biophysical simulations and modify the textbook example files. Included in the text are computer simulations of thermodynamics, astrobiology, the response of living cells to external fields, chaos in population dynamics, numerical models of evolution, electrical circuit models of cell suspension, gap junctions, and neuronal action potentials. With this text students will be able to perform biophysical simulations within hours. MATLAB examples include; the Hodgkin Huxley equations; the FitzHugh-Nagumo model of action potentials; fractal structures in biology; chaos in population dynamics; the cellular automaton model (the game of life); pattern formation in reaction-diffusion systems. QuickField™ tutorials and examples include; calculation of currents in biological tissue; cells under electrical stimulation; induced membrane potentials; heat transfer and analysis of stress in biomaterials.

This is a textbook for the standard undergraduate-level course in thermal physics. The book explores applications to engineering, chemistry, biology, geology, atmospheric science, astrophysics, cosmology, and everyday life.

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Rapid developments in technology have led to enhanced electronic systems and applications. When utilized correctly, these can have significant impacts on communication and computer systems. Transport of Information-Carriers in Semiconductors and Nanodevices is an innovative source of academic material on transport modelling in semiconductor material and nanoscale devices. Including a range of perspectives on relevant topics such as charge carriers,

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semiclassical transport theory, and organic semiconductors, this is an ideal publication for engineers, researchers, academics, professionals, and practitioners interested in emerging developments on transport equations that govern information carriers.

"This guide provides step-by-step instructions to guide those using Scientific Notebook (SNB) software to deal with physics problems. Including a CD enabling the reader to have 30-day trial of SNB software, the book contains many examples with detailed explanations of how to use the features of SNB to solve many physics problems. While it follows the traditional undergraduate physics curriculum typically used by textbooks and can therefore be used to supplement any undergraduate physics text, professional physicists and engineers will also find the book useful"--

A completely revised edition that combines a comprehensive coverage of statistical and thermal physics with enhanced computational tools, accessibility, and active learning activities to meet the needs of today's students and educators. This revised and expanded edition of Statistical and Thermal Physics introduces students to the essential ideas and techniques used in many areas of contemporary physics. Ready-to-run programs help make the many abstract concepts concrete. The text requires only a background in introductory mechanics and some basic ideas of quantum theory, discussing material typically found in undergraduate texts as well as topics such as fluids, critical phenomena, and computational techniques, which serve as a natural bridge to graduate study. Completely revised to be more accessible to students. Encourages active reading with guided problems tied to the text. Updated open source programs available in Java, Python, and JavaScript. Integrates Monte Carlo and molecular dynamics simulations and other numerical techniques. Self-contained introductions to thermodynamics

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and probability, including Bayes' theorem A fuller discussion of magnetism and the Ising model than other undergraduate texts Treats ideal classical and quantum gases within a uniform framework Features a new chapter on transport coefficients and linear response theory Draws on findings from contemporary research Solutions manual (available only to instructors)

The book aims to explain the basic ideas of thermal physics intuitively and in the simplest possible way. It is aimed at making the reader feel comfortable with the ideas of entropy and free energy. Thermal physics is prone to misunderstanding, confusion and is often being overlooked. However, a good foundation is necessary to prepare the reader for advanced level studies.

To move from empirical-based physics to the theoretical abstractness required for advanced physics requires a paradigmatic shift in logic that can challenge even the brightest mind. Grasping the play of phenomena as they are described in introductory compendiums does not necessarily create a foundation that allows for the building of a bridge to the higher levels of theoretical physics. In the first edition of *Advanced University Physics*, respected physicists Stuart Palmer and Mircea Rogalski built that bridge, and then guided readers across it. Serving as a supplement to the standard advanced physics syllabus, their work provided a succinct review of course material, while encouraging the development of a more cohesive understanding of theoretical physics. Now, after incorporating suggestions from many readers and colleagues, the two authors have revised and updated their original work to produce a

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second, even more poignant, edition. Succinct, cohesive, and comprehensive, Advanced University Physics, Second Edition brings individuals schooled in the rudiments of physics to theoretical fluency. In a progression of concise chapters, the text clarifies concepts from Newtonian Laws to nuclear dynamics, while introducing and building upon the theoretical logic required to operate in the world of contemporary physics. Some chapters have been combined to improve relational clarity, and new material has been added to cover the evolving concepts that have emerged over the last decade in this highly fluid field. The authors have also added a substantial amount of relevant problems and at least one pertinent example for every chapter. Those already steeped in physics will continue to find this work to be a useful reference, as the book's 47 chapters provide the opportunity to become refreshed and updated on a great number of easily identified topics.

A comprehensive and unified introduction to the science of energy sources, uses, and systems for students, scientists, engineers, and professionals.

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For the engineering and scientific professional, A Physicist's Guide to Mathematica, Second Edition provides an updated reference guide based on the 2007 new 6.0 release, providing an organized and integrated desk reference with step-by-step instructions for the most commonly used features of the software as it

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applies to research in physics. For professors teaching physics and other science courses using the Mathematica software, *A Physicist's Guide to Mathematica, Second Edition* is the only fully compatible (new software release) Mathematica text that engages students by providing complete topic coverage, new applications, exercises and examples that enable the user to solve a wide range of physics problems. Does not require prior knowledge of Mathematica or computer programming Can be used as either a primary or supplemental text for upper-division physics majors Provides over 450 end-of-section exercises and end-of-chapter problems Serves as a reference suitable for chemists, physical scientists, and engineers Compatible with Mathematica Version 6, a recent major release

Thermodynamics is the science that describes the behavior of matter at the macroscopic scale, and how this arises from individual molecules. As such, it is a subject of profound practical and fundamental importance to many science and engineering fields. Despite extremely varied applications ranging from nanomotors to cosmology, the core concepts of thermodynamics such as equilibrium and entropy are the same across all disciplines. *A Conceptual Guide to Thermodynamics* serves as a concise, conceptual and practical supplement to the major thermodynamics textbooks used in various fields. Presenting clear explanations of the core concepts, the book aims to improve fundamental understanding of the material, as well as homework and exam performance. Distinctive features include: Terminology and Notation Key: A

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universal translator that addresses the myriad of conventions, terminologies, and notations found across the major thermodynamics texts. Content Maps: Specific references to each major thermodynamic text by section and page number for each new concept that is introduced. Helpful Hints and Don't Try Its: Numerous useful tips for solving problems, as well as warnings of common student pitfalls. Unique Explanations: Conceptually clear, mathematically fairly simple, yet also sufficiently precise and rigorous. A more extensive set of reference materials, including older and newer editions of the major textbooks, as well as a number of less commonly used titles, is available online at <http://www.conceptualthermo.com>. Undergraduate and graduate students of chemistry, physics, engineering, geosciences and biological sciences will benefit from this book, as will students preparing for graduate school entrance exams and MCATs.

The role of thermodynamics in modern physics is not just to provide an approximate treatment of large thermal systems, but, more importantly, to provide an organising set of ideas. Thermodynamics: A complete undergraduate course presents thermodynamics as a self-contained and elegant set of ideas and methods. It unfolds thermodynamics for undergraduate students of physics, chemistry or engineering, beginning at first year level. The book introduces the necessary mathematical methods, assuming almost no prior knowledge, and explains concepts such as entropy and free energy at length, with many examples. This book aims to convey the style and power of thermodynamic reasoning, along

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with applications such as Joule-Kelvin expansion, the gas turbine, magnetic cooling, solids at high pressure, chemical equilibrium, radiative heat exchange and global warming, to name a few. It mentions but does not pursue statistical mechanics, in order to keep the logic clear. Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780201380279 .

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Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780495095156 .

This textbook addresses the key questions in both classical thermodynamics and statistical thermodynamics: Why are the thermodynamic properties of a nano-sized system different from those of a macroscopic system of the same substance? Why and how is entropy defined in thermodynamics, and how is the entropy change calculated when dissipative heat is involved? What is an ensemble and why is its theory so successful? Translated from a highly successful Chinese

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book, this expanded English edition contains many updated sections and several new ones. They include the introduction of the grand canonical ensemble, the grand partition function and its application to ideal quantum gases, a discussion of the mean field theory of the Ising model and the phenomenon of ferromagnetism, as well as a more detailed discussion of ideal quantum gases near $T = 0$, for both Fermi and Bose gases.

This book is an informal, readable introduction to the basic ideas of thermal physics. It is aimed at making the reader feel comfortable with the extremum principles of entropy and free energies. There is a repeating theme: Molecules (spins) do X to maximize their entropy, and molecules (spins) do XX to minimize their free energy. This finally leads to the idea of the Landau-Ginzburg free energy functional. The author illustrates how powerful the idea is by using two examples from phase transitions.

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