

BASIC THERMODYNAMICS



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Evelyn Guha Thermodynamics

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Evelyn Guha Thermodynamics:

Essentials of Thermodynamics N.D. Hari Dass, 2021-02-21 Essentials of Thermodynamics offers a fresh perspective on classical thermodynamics and its explanation of natural phenomena. It combines fundamental principles with applications to offer an integrated resource for students, teachers, and experts alike. The essence of classic texts has been distilled to give a balanced and in-depth treatment, including a detailed history of ideas which explains how thermodynamics evolved without knowledge of the underlying atomic structure of matter. The principles are illustrated by a vast range of applications, such as osmotic pressure, how solids melt and liquids boil, the incredible race to reach absolute zero, and the modern theme of the renormalization group. Topics are handled using a variety of techniques which helps readers see how concepts such as entropy and free energy can be applied to many situations and in diverse ways. The book has a large number of solved examples and problems in each chapter, as well as a carefully selected guide to further reading. The treatment of traditional topics like the three laws of thermodynamics, Carnot cycles, Clapeyron equation, phase equilibria, and dilute solutions is considerably more detailed than usual. For example, the chapter on Carnot cycles discusses exotic cases like the photon cycle, along with more practical ones like the Otto, Diesel, and Rankine cycles. There is a chapter on critical phenomena that is modern and yet highly pedagogical and contains a first-principles calculation of the critical exponents of Van der Waals systems. Topics like entropy, constants, surface thermodynamics, and superconducting phase transitions are explained in depth while maintaining accessibility for different readers. **The British National Bibliography** Arthur James Wells, 2002

Electromagnetic Theory and Wave Propagation S. N. Ghosh, 2002 Although the fundamental concepts of Maxwell remain for the most part unchanged since their inception, electromagnetic theory has continued to evolve, extending most significantly to shorter and shorter wavelengths. This has revealed many of nature's mysteries and led to a myriad of applications that have literally changed our world. The second edition of *Electromagnetic Theory and Wave Propagation* begins by presenting the basic concepts of electromagnetic theory, then explores the field's extended areas, primarily discovered after World War II. The author elaborates on the work of pioneer investigators, particularly with respect to the identity of light and electromagnetic waves, and then derives the fundamental laws of optics from electromagnetic considerations. He has also added several new topics, including meteor astronomy, remote sensing, and most notably, discussions on relativistic electrodynamics. Computers and Their Applications to Chemistry Ramesh Kumari, 2002 It's not just test tubes and Bunsen burners anymore. Computers now rank at or near the top of the list of a chemist's most indispensable tools, and it's safe to say that no chemistry student will get very far without a good working knowledge of computers and the concepts of computer programming. Designed specifically to ensure undergraduate chemistry students have this basic proficiency, *Computers and Their Applications to Chemistry* introduces the fundamentals of computers, then builds a solid foundation in programming using the BASIC programming language and simple examples from chemistry. The

author's straightforward approach moves smoothly from simple to complex ideas from elementary input output statements through data string manipulation and searching methods to graphics and numerical methods The last two chapters discuss a variety of available software packages particularly useful in chemistry Each chapter includes a number of solved examples followed by a set of review questions that reinforce and stimulate interest in the ideas presented Statistical Mechanics Evelyn Guha, 2008 Starting with a statistical view of the physical world this book discusses the basic concepts of macrostates and microstates of a system with much care using many examples to illustrate abstract ideas Textbook of Astronomy and Astrophysics with Elements of Cosmology V. B. Bhatia, 2001 Designed for students who have a basic understanding of physics and mathematics this text provides a fundamental three in one introduction to astronomy astrophysics and cosmology The astronomy section explores fundamental topics such as the celestial coordinate system stellar classification schemes H R diagrams and the masses and radii of stars The astrophysics section addresses stellar structure stellar atmospheres energy generation in stars and nucleosynthesis Also covering galactic structure and rotation the cosmology section introduces the Robertson Walker metric and Friedman models of the universe and discusses the present status of the Hubble constant along with problems associated with the age of the universe Numerous problems diagrams and up to date references make this an ideal introductory text for graduate courses in physics mathematics space physics or any program for which astronomy is an option **Nuclear Science Abstracts**, 1972-10 *INIS Atomindex*, 1973 **Japanese Journals of Physics: Author** Nichigai Asoshietsu, 1975 *Basic Thermodynamics* Evelyn Guha, 2000 The book presents a clear and simple exposition of thermodynamic principles to enable beginners to penetrate its fundamental ideas buried under a haze of abstractness and to appreciate the logical development of thermodynamic reasoning Since thermodynamics often proves conceptually difficult for the beginner care has been taken to present a clear and simple but comprehensive account of its principles Applications in various branches of physics phase transitions low temperature physics thermal radiation power and refrigeration cycles have been treated in some detail Worked examples and a set of problems accompany each chapter *Who's who* Henry Robert Addison, Charles Henry Oakes, William John Lawson, Douglas Brooke Wheelton Sladen, 1959 An annual biographical dictionary with which is incorporated Men and women of the time **Distillation Literature**, 1946 **Distillation Literature, Index and Abstracts** Arthur Rose, Elizabeth Rose, 1953 **National Union Catalog**, 1978 Includes entries for maps and atlases *World Who's who in Science*, 1968 **World Who's who in Science** Marquis Who's Who, Inc, 1968 **World Who's who in Science** Allen G. Debus, 1968 **Who's who in the West**, 1987 **Government Reports Announcements & Index**, 1979-08

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