

Igor Herbut

A Modern Approach to critical phenomena



A Modern Approach To Critical Phenomena

Ian D. Lawrie



A Modern Approach To Critical Phenomena:

A Modern Approach to Critical Phenomena Igor Herbut, 2007-01-04 Critical phenomena is one of the most exciting areas of modern physics This 2007 book provides a thorough but economic introduction into the principles and techniques of the theory of critical phenomena and the renormalization group from the perspective of modern condensed matter physics Assuming basic knowledge of quantum and statistical mechanics the book discusses phase transitions in magnets superfluids superconductors and gauge field theories Particular attention is given to topics such as gauge field fluctuations in superconductors the Kosterlitz Thouless transition duality transformations and quantum phase transitions all of which are at the forefront of physics research This book contains numerous problems of varying degrees of difficulty with solutions These problems provide readers with a wealth of material to test their understanding of the subject It is ideal for graduate students and more experienced researchers in the fields of condensed matter physics statistical physics and many body physics

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Mesoscopic Thermodynamics for Scientists and Engineers Mikhail A. Anisimov, Thomas J. Longo, 2024-08-27 Provides comprehensive coverage of the fundamentals of mesoscopic thermodynamics Mesoscopic Thermodynamics for Scientists and

Engineers presents a unified conceptual approach to the core principles of equilibrium and nonequilibrium thermodynamics. Emphasizing the concept of universality at the mesoscale, this authoritative textbook provides the knowledge required for understanding and utilizing mesoscopic phenomena in a wide range of new and emerging technologies. Divided into two parts, *Mesosopic Thermodynamics for Scientists and Engineers* opens with a concise summary of classical thermodynamics and nonequilibrium thermodynamics followed by a detailed description of fluctuations and local spatially dependent properties. Part II presents a universal approach to specific meso heterogeneous systems illustrated by numerous examples from experimental and computational studies that align with contemporary research and engineering practice. Bridges the gap between conventional courses in thermodynamics and real world practice. Provides in depth instruction on applying thermodynamics to current problems involving meso and nano heterogeneous systems. Contains a wealth of examples of simple and complex fluids, polymers, liquid crystals, and supramolecular equilibrium and dissipative structures. Includes practical exercises and references to textbooks, monographs, and journal articles in each chapter. *Mesosopic Thermodynamics for Scientists and Engineers* is an excellent textbook for advanced undergraduate and graduate students in physics, chemistry, and chemical, mechanical, and materials science engineering, as well as an invaluable reference for engineers and researchers engaged in soft condensed matter physics and chemistry, nanoscience, and nanotechnology, and mechanical, chemical, and biomolecular engineering.

A Unified Grand Tour of Theoretical Physics, Third Edition Ian D. Lawrie, 2012-11-27. *A Unified Grand Tour of Theoretical Physics* invites its readers to a guided exploration of the theoretical ideas that shape our contemporary understanding of the physical world at the fundamental level. Its central themes, comprising space-time geometry and the general relativistic account of gravity, quantum field theory, and the gauge theories of fundamental forces, and statistical mechanics and the theory of phase transitions, are developed in explicit mathematical detail with an emphasis on conceptual understanding. Straightforward treatments of the standard models of particle physics and cosmology are supplemented with introductory accounts of more speculative theories, including supersymmetry and string theory. This third edition of the Tour includes a new chapter on quantum gravity, focusing on the approach known as Loop Quantum Gravity, while new sections provide extended discussions of topics that have become prominent in recent years, such as the Higgs boson, massive neutrinos, cosmological perturbations, dark energy, and matter, and the thermodynamics of black holes. Designed for those in search of a solid grasp of the inner workings of these theories but who prefer to avoid a full-scale assault on the research literature, the Tour assumes as its point of departure a familiarity with basic undergraduate-level physics and emphasizes the interconnections between aspects of physics that are more often treated in isolation. The companion website at www.unifiedgrandtours.org provides further resources, including a comprehensive manual of solutions to the end-of-chapter exercises.

Liquid-State Physical Chemistry Gijsbertus de With, 2013-07-15. For many processes and applications in science and technology, a basic knowledge of liquids and solutions is

a must Gaining a better understanding of the behavior and properties of pure liquids and solutions will help to improve many processes and to advance research in many different areas This book provides a comprehensive self contained and integrated survey of this topic and is a must have for many chemists chemical engineers and material scientists ranging from newcomers in the field to more experienced researchers The author offers a clear well structured didactic approach and provides an overview of the most important types of liquids and solutions Special topics include chemical reactions surfaces and phase transitions Suitable both for introductory as well as intermediate level as more advanced parts are clearly marked Includes also problems and solutions

World In Prismatic Views, The - Proceedings Of The Second Interdisciplinary Chess Interactions Conference Chary Rangacharyulu, Emmanuel Haven, Bernhard Juurlink, 2014-03-20 This is one of the few unique books that explicitly explores what the common methodologies are across disciplines that stretch from the humanities to the exact sciences The goal is to compare and contrast the modes of thinking and methods of research of diverse disciplines to allow readers to explore the common threads and distinct features of approach to research Contributed by world renowned authors and written at a non specialist level it is accessible even to senior undergraduates and graduate students in various disciplines

Spin Glasses and Complexity Daniel L. Stein, Charles M. Newman, 2013-01-15 This primer builds the theory of spin glasses starting with the real physical systems and experiments that inspired the theory

Phases of Matter and their Transitions Gijsbertus de With, 2023-10-25 *Phases of Matter and their Transitions* An all in one comprehensive take on matter and its phase properties In *Phases of Matter and their Transitions* accomplished materials scientist Dr Gijsbertus de With delivers an accessible textbook for advanced students in the molecular sciences It offers a balanced and self contained treatment of the thermodynamic and structural aspects of phases and the transitions between them covering solids liquids gases and their interfaces The book lays the groundwork to describe particles and their interactions from the perspective of classical and quantum mechanics and compares phenomenological and statistical thermodynamics It also examines materials with special properties like glasses liquid crystals and ferroelectrics The author has included an extensive appendix with a guide to the mathematics and theoretical models employed in this resource Readers will also find Thorough introductions to classical and quantum mechanics intermolecular interactions and continuum mechanics Comprehensive explorations of thermodynamics gases liquids and solids Practical discussions of surfaces including their general aspects for solids and liquids Fulsome treatments of discontinuous and continuous transitions including discussions of irreversibility and the return to equilibrium Perfect for advanced students in chemistry and physics *Phases of Matter and their Transitions* will also earn a place in the libraries of students of materials science

Handbook on the Physics and Chemistry of Rare Earths, 2016-08-01 *Handbook on the Physics and Chemistry of Rare Earths* is a continuous series of books covering all aspects of rare earth science including chemistry life sciences materials science and physics The book s main emphasis is on rare earth elements Sc Y and the lanthanides La

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