

Landau Course Of Theoretical Physics

A. Livanova, J. B. Sykes

Quantum Mechanics L D Landau, E. M. Lifshitz, 1991 This edition has been completely revised to include some 20% of new material. Important recent developments such as the theory of Regge poles are now included. Many problems with solutions have been added to those already contained in the book.

Course of Theoretical Physics L. D. Landau, E. M. Lifshitz, 2013-06-01 Course of Theoretical Physics, Volume 5: Statistical Physics, Third Edition, Part 1 covers the fundamental principles of statistical physics and thermodynamic quantities. The book discusses the Gibbs and Maxwellian distributions; the Boltzmann distribution for ideal gases; and the Fermi and Bose distributions. Solids are tackled with regard to their application of statistical methods of calculating the thermodynamic quantities. The book describes the deviations of gases from the ideal state, conditions of phase equilibrium, solutions, and chemical reactions. The text also discusses the properties of matter at very high density; the Gaussian distribution; fluctuations of the fundamental thermodynamic quantities; and fluctuations in solids and ideal gases. The symmetry of crystals; phase transitions of the second kind and critical phenomena; and surfaces are considered as well. Students taking statistical physics and those involved in the areas of statistical physics will find the book invaluable.

Fluid Mechanics L D Landau, E. M. Lifshitz, 2013-10-22 Course of Theoretical Physics, Volume 6: Fluid Mechanics discusses several areas of concerns regarding fluid mechanics. The book provides a discussion on the phenomenon in fluid mechanics and their intercorrelations, such as heat transfer, diffusion in fluids, acoustics, theory of combustion, dynamics of superfluids, and relativistic fluid dynamics. The text will be of great interest to researchers whose work involves or concerns fluid mechanics.

Statistical Physics L D Landau, E. M. Lifshitz, 2013-10-22 A lucid presentation of statistical physics and thermodynamics which develops from the general principles to give a large number of applications of the theory.

Theory of Elasticity L D Landau, L. P. Pitaevskii, A. M. Kosevich, E. M. Lifshitz, 2012-12-02 A comprehensive textbook covering not only the ordinary theory of the deformation of solids, but also some topics not usually found in textbooks on the subject, such as thermal conduction and viscosity in solids.

Mechanics L D Landau, E. M. Lifshitz, 1976-01-15 Pergamon international library of science, technology, engineering and social studies.

Fluid Mechanics L D Landau, E. M. Lifshitz, 2013-09-03 Fluid Mechanics, Second Edition deals with fluid mechanics, that is, the theory of the motion of liquids and gases. Topics covered range from ideal fluids and viscous fluids to turbulence, boundary layers, thermal conduction, and diffusion. Surface phenomena, sound, and shock waves are also discussed, along with gas flow, combustion, superfluids, and relativistic fluid dynamics. This book is comprised of 16 chapters and begins with an overview of the fundamental equations of fluid dynamics, including Euler's equation and Bernoulli's equation. The reader is then introduced to the equations of motion of a viscous fluid; energy dissipation in an incompressible fluid; damping of gravity waves; and the mechanism whereby turbulence occurs. The following chapters explore the laminar boundary layer; thermal conduction in fluids; dynamics of diffusion of a mixture of fluids; and the phenomena that occur near the surface separating two continuous media. The energy and momentum of sound waves; the direction of variation of quantities in a shock wave; one- and two-dimensional gas flow; and the intersection of surfaces of discontinuity are also also considered. This monograph will be of interest to theoretical physicists.

Course of theoretical physics by L.D. Landau and E.M. Lifshitz Lev Davidovich Landau, Il'iia Mikhaïlovich Lifshits, 1958

Mechanics and Electrodynamics L D Landau, E.M. Lifshitz, 2013-10-22 Largely a condensed amalgamation of two previous books by the same authors - Mechanics and The Classical Theory of Fields - omitting the rather more advanced topics such as general relativity.

Quantum Mechanics Lev Davidovich Landau, Evgenii Mikhaïlovich Lifshits, 1977 The complete Course of Theoretical Physics by Landau & Lifshitz, recognised as two of the world's outstanding physicists, is published in full by Butterworth-Heinemann. It comprises ten volumes, covering all branches of the subject.

Kratkiĭ Kurs Teoreticheskoi Fiziki Lev Davydovič Landau (Physicien, Union Soviétique), Evgenij Michajlovič Lifšic (Physicien, Union Soviétique), 1972

A Shorter Course of Theoretical Physics: Mechanics and electrodynamics Lev Davidovich Landau, Evgenii Mikhaïlovich Lifshits, Evgenii Mikhaïlovich Lifshits, 1972

What Is Relativity? L. D. Landau, G. B. Rumer, 2003-01-01 Written by a Nobel Prize physicist and his colleague, this compelling book uses familiar objects (trains, rulers, clocks) to illuminate the more subtle aspects of relativity. 23 illustrations. 1959 edition.

Electrodynamics of Continuous Media L D Landau, J. S. Bell, M. J. Kearsley, L. P. Pitaevskii, E.M. Lifshitz, J. B. Sykes, 2013-10-22 Covers the theory of electromagnetic fields in matter, and the theory of the macroscopic electric and magnetic properties of matter. There is a considerable amount of new material particularly on the theory of the magnetic properties of matter and the theory of optical phenomena with new chapters on spatial dispersion and non-linear optics. The

chapters on ferromagnetism and antiferromagnetism and on magnetohydrodynamics have been substantially enlarged and eight other chapters have additional sections.

Course of Theoretical Physics L. D. Landau, Evgenij M. Lifšic, 1975

Course of Theoretical Physics L. D. Landau, 1996-04-01

General Physics Lev Davidovich Landau, Aleksandr Il'ich Akhiezer, Evgenii Mikhailovich Lifshits, 1967 Presents, at a level suitable for undergraduates and technical college students, the basic physical theory of mechanics and the molecular structure of matter. The material contained in the work should correspond quite closely to courses of lectures given to undergraduate students of physics in Britain and America.

Quantum Mechanics, Non L. D. Landau, 2003-01-01

Landau A. Livanova, J. B. Sykes, 2013-10-22 A biography of Lev Landau, one of the greatest Soviet theoretical physicists, whose career was cut short by a catastrophic car accident in 1962 and who was still only sixty when he died six years later. He won the Nobel Prize 'for pioneering work on the theory of the condensed state of matter, particularly liquid helium'. But the book shows that Landau's characterisation of himself as 'one of the last of the universal men of theoretical physics' was fully justified. Clearly and concisely it describes his achievements in all areas of theoretical physics from hydrodynamics to the quantum theory of fields. Attention is also paid to his genius as a teacher and mentor of young scientists, and throughout the book the true humanity of the man is evident

The Classical Theory of Fields L D Landau, 2013-10-22 Translated from the 6th Russian edition, this latest edition contains seven new sections with chapters on General Relativity, Gravitational Waves and Relativistic Cosmology, where Professor Lifshitz's interests lay. The text of the 3rd English edition has been thoroughly revised and additional problems inserted

Unveiling the Magic of Words: A Overview of "**Landau Course Of Theoretical Physics**"

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