

Statistical Physics Textbook



Statistical Physics Textbook

Equilibrium statistical mechanics, and statistical mechanics as a whole Gibbs, Josiah Willard (1902). Elementary Principles in Statistical Mechanics, developed with especial reference to the rational foundation of thermodynamics. New York: Charles Scribner's Sons. Ehrenfest, Paul and Tatiana ...

List of textbooks in statistical mechanics - Wikipedia

Statistical Physics, Second Edition develops a unified treatment of statistical mechanics and thermodynamics, which emphasises the statistical nature of the laws of thermodynamics and the atomic nature of matter. Prominence is given to the Gibbs distribution, leading to a simple treatment of quantum statistics and of chemical reactions.

Statistical Physics, 2nd Edition: Franz Mandl ...

I recommend the book "A Modern Course in Statistical Physics" by Reichl. It starts with phenomenological thermodynamics, covers both equilibrium and nonequilibrium statistical mechanics, and discusses a wide range of applications, not only ideal and real gases. Its level of rigor is that of typical books on theoretical physics.

Recommendations for Statistical Mechanics book

Statistical Physics of Particles. Cambridge University Press, 2007. ISBN: 9780521873420. [Preview with Google Books] Mehran has given the graduate version of statistical physics at MIT for a number of years and this is the text that has evolved from it. The course, and the textbook, are exemplary.

Syllabus | Statistical Physics I | Physics | MIT ...

1) Kardar - Statistical Physics of Particles. It's a good solid book, succinct and to the point. Doesn't cover anything but core topics. Generally the exposition is pretty good and I have no real quibble about it. My main gripe is how hard his problems can be, and the amount of knowledge you have to sometimes bring from outside sources.

Statistical Mechanics Textbook | Physics Forums

Statistical Physics. Statistical physics crosses over to many fields: biology, chemistry, neurology, and even sociology. Our low-priced texts include authoritative texts on elementary statistical physics, statistical mechanics, algebraic methods, Green function method, and more.

Statistical Physics Books - Dover Books

Statistical physics is not a difficult subject, and I trust that this will not be found a difficult book. It contains much that a number of generations of Lancaster students have studied with me, as part of their physics honours degree work. The lecture course was of 20 hours' duration, and I have added comparatively little to the lectures syllabus.

Statistical Physics, Second Revised and Enlarged Edition

This is an academic textbook in three parts, intended for a one-semester course in statistical physics at honours BSc level. Throughout the book, the emphasis is on a clear, concise exposition, with all steps being clearly explained.

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