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A powerful introduction to thermodynamics and statistical physics

By Vahit Sametoglu

This is one of the best introductory "thermodynamics and statistical physics" books, though it was published a long time ago.

It starts with simple statistics with very general, lucid and instructive examples. The whole theory is based on these simple examples, which makes the learning process fun and easy, although it is considered to be a tough physics course. This book should be used around sophomore level, in my opinion. In the following chapters, the author introduces the laws of thermodynamics and lays out the details very clearly with illustrative examples. The discussions are written in plain, clear English. The examples are very well-thought-out and pedagogically very effective. Towards the end of the book, he introduces more advanced and rigorous concepts. But again, they are written very well. The end-of-chapter problems are also nice, containing questions of various levels of difficulty.

Reif does a very good job in this book, and it is strongly recommended.

15 of 15 people found the following review helpful.

surprisingly well written

By TheFox

Physics text books have a history, save a few notable exceptions, of being rather poorly written. This book, as well as some of the other books in the Berkley physics series (the text books are highly sought after by

physics students, but are unfortunately out of print and therefore hard to find) are written in a way that is easy to follow and actually pleasant to read. This book helped me get through my thermodynamics and statistical mechanics book at university thanks to its straightforward writing style as well as its number of examples and diagrams where needed. If only this book was actually my text book, instead of what we used.

The only downside of the book is that because it is out of print, the information is not necessarily that up to date. The book does give a very good foundation into statistical mechanics, but lacks some of the more recent developments in the field such as the experimental proof of Bose-Einstein condensates.

6 of 8 people found the following review helpful.

"Baby" Reif

By Ulfilas

Reif's book provides sophomore level undergraduates with a suitable introduction to such concepts as entropy and temperature from the point of view of statistical thermodynamics. Nevertheless, I believe that the student would do better to purchase Reif's more advanced and complete textbook: *Fundamentals of Statistical and Thermal Physics*. The early chapters of Reif's graduate-level textbook are quite similar to this volume 5 of the Berkeley series that some wag christened as "Baby Reif". Essentially, "Baby" Reif is a book that you should consider borrowing from your university library, while the more complete version is the one that you should reserve for purchase.

This 397 page book begins with a discussion of equilibrium and the development of probabilistic concepts such as combinations, permutations, Gaussian distributions, mean, and variance. The author then goes on to irreversibility and the definition of heat, heat capacity, energy, temperature and other classical thermodynamic concepts. It is not until well into the final third of the book, however, on page 285, that entropy is defined as proportional to the logarithm of the number of states. For my taste, the author waits much too long to introduce this concept of statistical entropy, which I consider a much easier way of thinking of entropy--especially when compared to the classical definition as that of heat divided by temperature. In Reif's graduate level text, statistical entropy is defined quite early on (p.99 of the 651-page textbook)--which to me is much more satisfactory.

This introductory book also discusses free energy, and provides pocket biographies of such important figures as Maxwell, Gibbs, and Boltzmann.

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