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properties of  
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logically self-consistent field of knowledge. It has a proven universal applicability and significance but its actual potential is still latent. The development of the foundations of thermodynamics was in effect non-stop but absolutely no one has any idea about this. This book is the first of its kind that will motivate

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researchers to build up a logically consistent field of thermodynamics. It greatly appreciates the actual depth and potential of thermodynamics which might also be of interest to readers in history and philosophy of scientific research. The book presents the life stories of the protagonists in detail and allows readers

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to cast a look at the whole scene of the field by showcasing a significant number of their colleagues whose works have fittingly complemented their achievements. It also tries to trigger a detailed analysis of the reasons why the actual work in this extremely important field has in effect gone astray. It comprises five

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chapters and introduces three scientists in the first two chapters, which are specifically devoted to the Scandinavian achievements in macroscopic thermodynamics. These introductions are novel and call for a detailed reconsideration of the field. The third chapter acquaints the readers with their fourth

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colleague in Germany who was working on the proper link between the macroscopic thermodynamics, kinetics, and the atomistic representation of matter. The fourth chapter brings in their fifth colleague in the United States who could formally infer the famous formula  $S = k * \ln(W)$ , ingeniously



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guessed by Ludwig Boltzmann, and thus clarify the physical sense of the entropy notion. The last chapter summarizes the above-mentioned discourses.

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that is at a level too high for those new to the field. This second edition of

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methodology for solving problems in the context of conservation laws and property tables or equations. The authors elucidate the terms around which thermodynamics has historically developed, such as work, heat, temperature, energy, and entropy. Using a pedagogical approach that builds from basic

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principles to laws and eventually corollaries of the laws, the text enables students to think in clear and correct thermodynamic terms as well as solve real engineering problems. For those just beginning their studies in the field, Thermodynamics, Second Edition provides the core fundamentals in a rigorous, accurate, and

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concerns the  
development of a theory  
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on the nanoscale,  
namely,  
nanothermodynamics.

The theory has been  
applied to porous media,  
small surfaces, clusters  
or fluids under  
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number of unsolved issues in these contexts is numerous and the present efforts are only painting part of the broader picture. We attempt to answer the following: How far down in scale does the Gibbs equation apply? Which theory can replace it beyond the thermodynamic limit? It is well known that

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confinement and changes the equation of state of a fluid, but how does confinement change the equilibrium conditions themselves? This Special Issue explores some of the roads that were opened up for us by Hill with the idea of nanothermodynamics. The experimental progress in nanotechnology is

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advancing rapidly. It is our ambition with this book to inspire an increased effort in the development of suitable theoretical tools and methods to help further progress in nanoscience. All ten contributions to this Special Issue can be seen as efforts to support, enhance and validate the theoretical foundation of Hill.



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