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what may happen after one specifies the fluid mechanics and heat transfer applicable to the problem, (It is also interesting to calculate the final air temperature of the pressurizing air in the second model.)

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basically developed out of a desire to improve the efficiency of steam engines.

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Applications are given to the sections in Principles and Applications where one could go to learn more about the development, limitations, and conditions where these equations apply. This is the only place where Advanced Applications ties back to the previous volume. Chapter 11 can

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in effect non-stop but absolutely no one has any idea about this. This book is the first of its kind that will motivate researchers to build up a logically consistent field of thermodynamics. It greatly appreciates the actual depth and potential of thermodynamics which

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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 to cast a look at the whole scene of the field by showcasing a significant number of their colleagues whose works have

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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 chapters and introduces three scientists in the first two chapters, which are specifically

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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 colleague in Germany who was working on the proper link

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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 $S = k \cdot \ln(W)$, ingeniously guessed by Ludwig Boltzmann, and

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thus clarify the physical sense of the entropy notion. The last chapter summarizes the above-mentioned discourses.

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