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The probabilistic interpretation of thermodynamics; 6.2 Explicit use of probability for a gas with discrete energies; 6.3 Energy is continuous; 6.4 The so-called H-curve; 7 Boltzmann, Gibbs, and equilibrium statistical mechanics; 7.1 Introduction; 7.2 A great American scientist of the nineteenth century: J.W. Gibbs; 7.3 Why is statistical mechanics usually attributed to Gibbs and not to Boltzmann?; 7.4 Gibbs's treatise 7.5 French scientists on statistical mechanics 7.6 The problem of trend to equilibrium and ergodic theory; 7.7 Planck and statistical mechanics; 8 The problem of polyatomic molecules; 8.1 The problem of specific heats; 8.2 The H-theorem for polyatomic molecules; 8.3 Specific heats again; 8.4 Boltzmann's ideas on specific heats, and twentieth century contributions; 9 Boltzmann's contributions to other branches of physics; 9.1 Boltzmann's testing of Maxwell's theory of electromagnetism; 9.2 Boltzmann lays the foundations of hereditary mechanics; 9.3 Back to electromagnetism 9.4 A true pearl of theoretical physics 9.5 Mathematics and foundations of mechanics; 10 Boltzmann as a philosopher; 10.1 A realist, but not a naive one; 10.2 Laws of thought and scientific concepts; 10.3 Ethics, aesthetics, religion; 10.4 Philosophy of science; 10.5 Boltzmann's views on scientific revolutions; 10.6 Boltzmann's education in philosophy; 10.7 Did Boltzmann abandon realism?; 11 Boltzmann and his contemporaries; 11.1 The contacts between Boltzmann and his colleagues; 11.2 Maxwell; 11.3 Lorentz; 11.4 Boltzmann and the energetists; 11.5 Planck; 11.6 Students and younger colleagues 12 The influence of Boltzmann's ideas on the science and technology of the twentieth century

Sommario/riassunto

The book presents the life and personality, the scientific and philosophical work of Ludwig Boltzmann. His tragic life ending with his suicide is described in detail. A substantial part of the book is devoted to discussing his work establishing the atomic structure of matter and his influence on modern physics. - ;This book presents the life and personality, the scientific and philosophical work of Ludwig Boltzmann, one of the great scientists who marked the passage from 19th- to 20th-Century physics. His rich and tragic life, ending by suicide at the age of 62, is described in detail. A subst

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