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Statistical Mechanics: The Theory of the Properties of Matter in Equilibrium; Based on an Essay Awarded the Adams Prize in the University of Cambridge 1923-24 (Classic Reprint) (Paperback)

By Ralph Howard Fowler

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Statistical Mechanics: The Theory of the Properties of Matter in Equilibrium; Based on an Essay Awarded the Adams Prize in the University of Cambridge 1923-24 In attempting to study the physical state of matter at high temperatures on the lines suggested by the notice for the Adams Prize Essay for 1923 - 1924, it was at once apparent that the problem demanded all the available resources of present-day statistical mechanics. These have been somewhat increased in recent years, and the whole aspect of the kinetic theory of matter, at least in full statistical equilibrium, has been steadily altered by the development of the Quantum Theory. As a result there is no recent systematic exposition of the equilibrium theory of statistical mechanics*, envisaging throughout both classical and quantized systems, to which one may appeal in the further applications that it is proposed to make here. Prof. Darwin and I have been fortunate enough in recent years to have developed a method (new in this connection) which enables a systematic exposition to be undertaken with, we would submit, a sufficient degree of elegance....



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