



A System of Physical Chemistry, Vol. 3 of 3 (Classic Reprint)

By William Cudmore McCullagh Lewis

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from A System of Physical Chemistry, Vol. 3 of 3 In this volume an attempt is made to deal with some physico-chemical applications of the principles of statistical mechanics. An account is first given of the application of what is now known as the classical statistical mechanics, more particularly to the problem of the energy content of substances and its variation with temperature, on the one hand, and to the problem of radiation on the other. It will be seen that in both these branches classical statistical mechanics makes it possible for us to advance very considerably beyond the limits set by the elementary kinetic theory employed in Volume I., but at the same time it will be found that the classical statistical mechanics does not furnish us with a complete and adequate basis for all the observed phenomena. It is therefore necessary to enlarge or modify the fundamental concepts of statistical mechanics, and it is precisely with this object in view that Planck has been led to introduce the idea of quanta. Planck's quantum...

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