



Physical Review Volume 33 (Paperback)

By American Institute Of Physics

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1911 Excerpt: .the value of dn from (1) and integrating, and then substituting the value of K from (2) we have $\cosh a$ where n is the number of molecules in unit volume. Since it is the thermal agitation of the molecules which opposes the action of H , if there were no thermal agitation--i. e., if the substance were at absolute zero--the intensity of magnetization would be a maximum and we would have $I_m = nM$. Hence For paramagnetic substances, a is very small--much less than unity. $\cosh a \approx 1$ For values of a less than n^2 , $-7--r--$ can be developed into a convergent series as follows: $\cosh a \approx 1 + \frac{a^2}{2} + \frac{a^4}{24} + \frac{a^6}{720} + \dots$ For values of a less than 0.7, the terms of this series involving higher powers of a than the first are negligible, and we have $M \approx nH$...



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