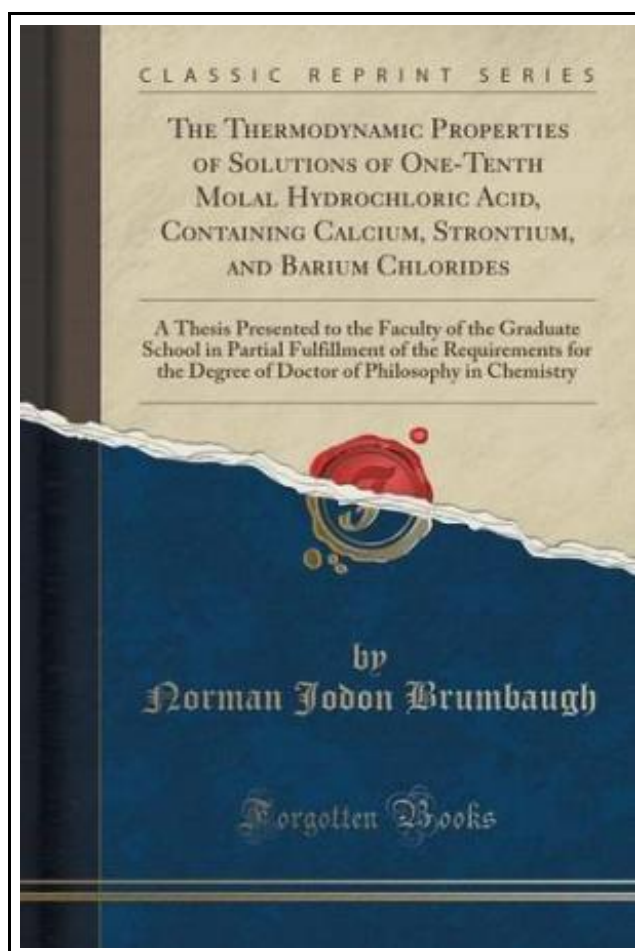


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from The Thermodynamic Properties of Solutions of One-Tenth Molal Hydrochloric Acid, Containing Calcium, Strontium, and Barium Chlorides: A Thesis Presented to the Faculty of the Graduate School in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy in Chemistry In all these cells the concentration of the acid has been kept constant and the salt varied. Loomis, Essex and Meacham (Jour. Amer. Chem. Soc. 39, 1133 (1917) and Ming Chow (ibid. 42,488 (1920), have also measured cells of the same type containing hydrochloric acid and potassium chloride, but in their measurements the total chlorine ion concentration was kept constant. In the present investigation accurate measurements of the same types of cells have been made, employing barium, strontium and calcium chlorides in 0.1 M hydrochloric acid. The exact calculation of the individual activity coefficients of the ions in concentrated solutions is a problem accompanied with great difficulties owing to liquid junction potentials which cannot be accurately calculated. At the present time, the only other method of value, besides calculations which are inexact, is to eliminate as far as possible the liquid junction potential by the use of a saturated potassium chloride solution. Although this error due to liquid junction is appreciable, and the calculations cannot be regarded as exact, it is thought that further experimental work of this nature is of very great value, particularly since no other method has yet been found which can approach it in accuracy. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct...

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