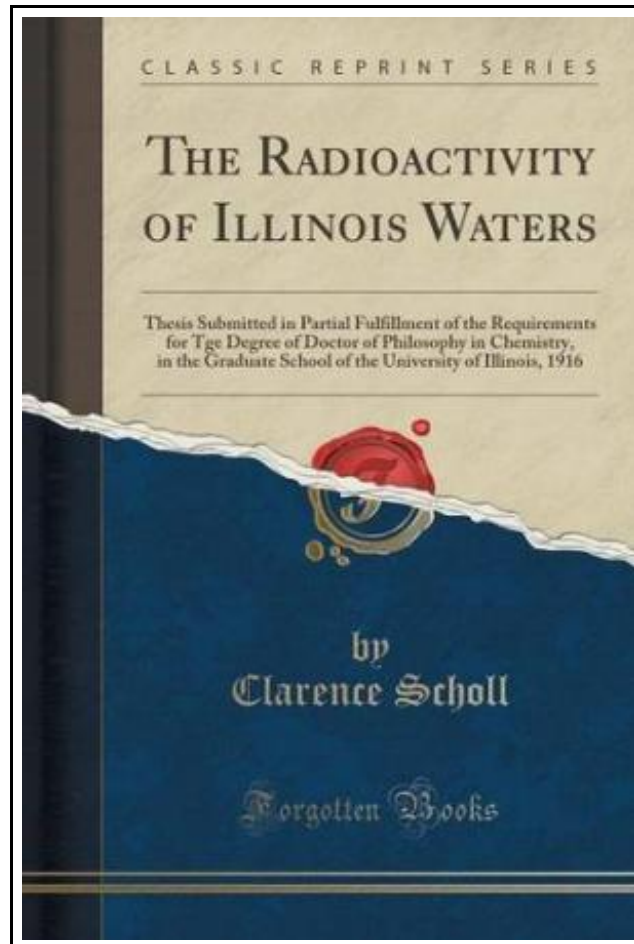


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Radioactivity of Illinois Waters: Thesis Submitted in Partial Fulfillment of the Requirements for Tge Degree of Doctor of Philosophy in Chemistry, in the Graduate School of the University of Illinois, 1916 During his visit to the United States in 1902, J. J. Thomson reported that the research men of Cavendish laboratory of London had separated a very active gas from a deep well water. At Professor Thomson s suggestion Bumstead and Wheeler investigated the waters of New Milford and New Haven, Connecticut, and found that these two waters contained gases whose activity was six to eight times the normal air leak of an electroscope. Similar research made by other investigators upon European waters, showed that the active gases occurred universally but varied in quantity in different localities. As there was no standard of activity at that time no quantitative measurements were made; the period of decay of the active material was found to correspond in most cases to the decay period of radium emanation. Boltwood in 1904, and Boltwood and Rutherford in 1906, investigated the proportion of radium and uranium in radioactive minerals and found the ratio of radium to uranium to be constant, 3.4×10^{-7} grams of radium per gram of uranium. Lind and Whittemore confirmed this ratio in 1915. As the amount of radium emanation in equilibrium with radium is constant, the amount of radium emanation is, therefore, proportional to the amount of uranium. Boltwood suggested that the quantity of radium emanation set free when a known weight of a natural uranium mineral is dissolved in a suitable reagent, be taken as a standard of radioactivity. In 1905 he used this...

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