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Researches in Physical Chemistry (Classic Reprint) (Paperback)

By William Lash Miller

Forgotten Books, 2018. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Researches in Physical Chemistry In the simpler cases, at all events, these changes of concentration are susceptible of mathematical treatment; Weber and Sand have considered the case of electrolysis with constant currents, and Warburg has deduced an equation for the stationary state on electrolysis with a sinusoidal current through a diffusion layer of infinite length. The present paper deals with the whole problem in a systematic manner, and includes the discussion of electrolysis with intermittent, successive, and sinusoidal currents, without restrictions as to the duration of the electrolysis or the length of the column of liquid through which the diffusion takes place. The increasing application of the oscillograph to the study of instantaneous conditions at the electrode led us to pay particular attention to the changes which take place within the first fraction of a second after throwing on the current, while Richards' work on electrolysis with alternating currents, followed by the interesting experiments of Leblanc and of Reichenstein with copper electrodes in cyanide solutions, induced us to include the case of non-instantaneous chemical reactions between the primary...



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