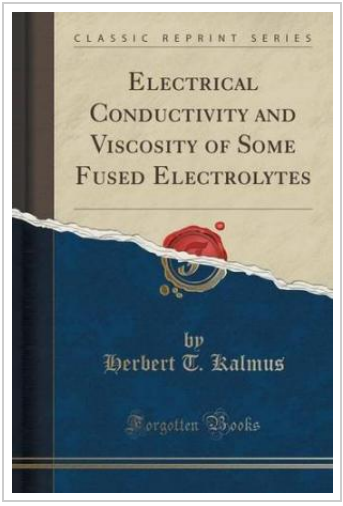

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Electrical Conductivity and Viscosity of Some Fused Electrolytes (Classic Reprint) (Paperback)

By Herbert T Kalmus

Forgotten Books, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Electrical Conductivity and Viscosity of Some Fused Electrolytes When an electric current passes through a conductor of the second class the acceleration which the potential gradient tends to give the moving ions is offset by the retardation they suffer due to their friction with the medium in which they move. Hence a uniform velocity results, which for a given condition of temperature, pressure and concentration depends only upon the kind of ions and upon the surrounding medium. Consequently it is not improbable that some functional relation might be found to exist between the electrical conductivity of an electrolyte and its fluidity. For the case of aqueous solutions a large amount of investigation has been carried out in this connection, and whether or not we accept the interpretation of the results as satisfactory, at least there is an abundance of data, both for conductivity and viscocity. Kohlrausch) has sketched out a new view of the mechanics of electrolysis, according to which the moving ion carries with it a mass of adhering solvent, and the electrical resistance of an ion he...

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