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The Velocity of Inversion of Sucrose as a Function of the Thermodynamic Concentration of Hydrogen Ion: Dissertation Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy in the

By Jacques C Morrell

Forgotten Books, 2018. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Velocity of Inversion of Sucrose as a Function of the Thermodynamic Concentration of Hydrogen Ion: Dissertation Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy in the Faculty of Pure Science, Columbia, University in the City of New York In general the velocity of inversion of sucrose is a function of several variables, namely the temperature, and concentration of hydrogen ion, undissociated acid, sucrose, added salts and non -electrolytes. Although the study of this reaction has been very extensive,¹ it must be pointed out that on account of the many variables to be considered, and the wide intervals over which each variable may be varied, the experimental data in the literature is really of such a fragmentary nature as to make it impossible to study the reaction in a critical and thorough manner. It is the particular purpose of this investigation to study the inversion velocity as a function of the thermodynamic concentration of hydrogen ion² in connection with the broader purpose of testing the various theories that have been advanced, and to adduce evi...



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