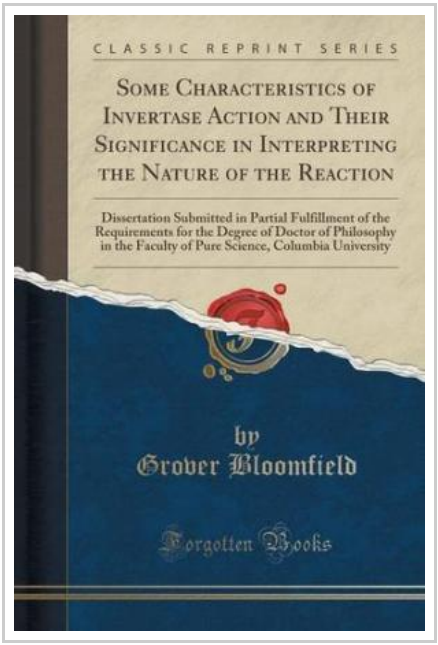



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# Some Characteristics of Invertase Action and Their Significance in Interpreting the Nature of the Reaction: Dissertation Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy in the Faculty

By Grover Bloomfield

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Some Characteristics of Invertase Action and Their Significance in Interpreting the Nature of the Reaction: Dissertation Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy in the Faculty of Pure Science, Columbia University Historical. Brown (J. Chem. Soc., 81, 373 [1902]) observed that the rate of hydrolysis of sucrose in the presence of invertase reaches a maximum and remains constant above a certain substrate concentration, but did not actually determine what this concentration was. Nelson and Vosburgh (J. Am. Chem. Soc., 39, 790 [1919]) discussed a number of curves obtained from their own data and those of Michaelis and Menten (Biochem. Z., 49, 333 [1913]) relating the velocity of hydrolysis with the sucrose concentration and showed that the maximum rate of inversion was obtained in each case at about five grams of substrate per 100 c. c. of solution. At higher concentrations there was practically no change in velocity, while with less sugar the rate was smaller. The fact that two distinct invertase preparations, used at different temperatures

### Reviews

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