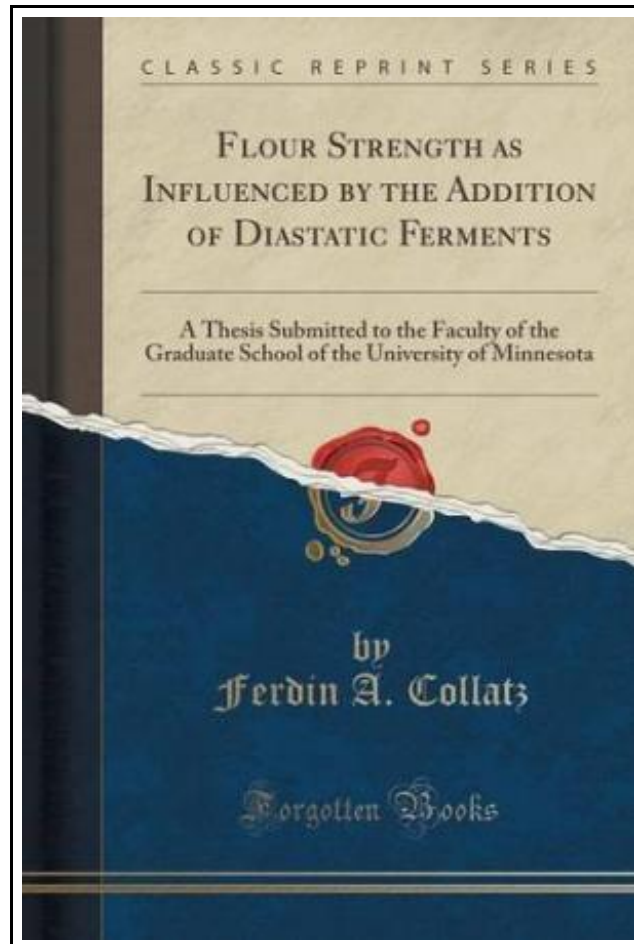


# Flour Strength as Influenced by the Addition of Diastatic Ferments: A Thesis Submitted to the Faculty of the Graduate School of the University of Minnesota (Classic Reprint)



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## **FLOUR STRENGTH AS INFLUENCED BY THE ADDITION OF DIASTATIC FERMENTS: A THESIS SUBMITTED TO THE FACULTY OF THE GRADUATE SCHOOL OF THE UNIVERSITY OF MINNESOTA (CLASSIC REPRINT)**



Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Flour Strength as Influenced by the Addition of Diastatic Ferments: A Thesis Submitted to the Faculty of the Graduate School of the University of Minnesota The baking strength of flour has received a great deal of attention by scientific workers in the last twenty-five years, due primarily to the economic importance of bread. A number of factors have been thoroughly investigated, in their relation to baking strength, in order to draw some conclusions as to why some flours give a large, light, palatable loaf of bread and others an inferior loaf. Certain factors which have been investigated in their relation to baking strength are total nitrogen, ratio of water-soluble nitrogen to total nitrogen, chemical composition of the individual proteins, total gluten, total gliadin, ratio of gliadin to glutenin, ratio of gliadin to total nitrogen, ratio of wet to dry gluten, effect of electrolytes, hydrogen-ion concentration, total amount of gas evolved during fermentation, and the effects of diastatic and proteolytic enzymes of the flour. Flours which bake out well have been given the arbitrary term of strong flours while the others are termed weak. Naturally a great number of definitions of strength have found their way into the literature, but the definition that has been most generally accepted is that of Humphries and Biffin(1907), who state that a strong wheat is one which yields flour capable of making large, well-piled loaves. Flours which do not measure up to this empirical standard are classed as weak. This definition indicates that strength in flour is more desirable than weakness for the baking of bread. Wood(1907), has called attention to two factors in strength, namely, size and shape of...

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