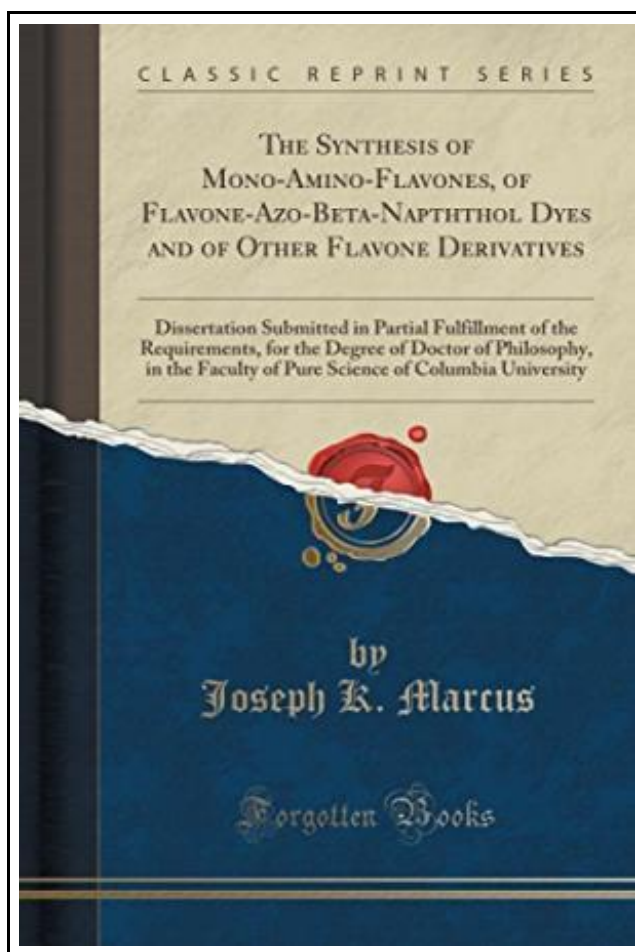


**The Synthesis of Mono-Amino-Flavones, of Flavone-Azo-Beta-Napththol Dyes and of Other Flavone Derivatives:
Dissertation Submitted in Partial Fulfillment of the
Requirements, for the Degree of Doctor of Philosophy,
in the Faculty of Pure Science**



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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Synthesis of Mono-Amino-Flavones, of Flavone-Azo-Beta-Napththol Dyes and of Other Flavone Derivatives: Dissertation Submitted in Partial Fulfillment of the Requirements, for the Degree of Doctor of Philosophy, in the Faculty of Pure Science of Columbia University 1. What was the object of the investigation? 2. To what extent was the object attained? 3. What contribution, actually new to the science of chemistry, has been made? 1. The intense yellow color of some of the naturally occurring hydroxy derivatives of flavone (certain of which are valuable as dyes; i. e., Quercetin - 1,3,3',4', alpha-penta-hydroxy-flavone - in Quercitron Bark, and Morin - 1,3,2',4', alpha-penta-hydroxy-flavone - in Old Fustic) made it seem of interest to extend the investigation of the flavone series to the preparation and study of the amino derivatives in order (I) to record the auxochromic effect of the amino group on the flavone nucleus; and (II) to couple the diazotized amines with betanaphthol, thus incorporating the flavone, azo and naphthalene chromophores in one compound, with the hope of obtaining red or blue dyes. Further, (III) a method was sought for making flavone or flavone derivatives which should be dependent on the use of easily available materials and of few reactions. 2. (I) - 2 - Amino-flavone, 3 - amino-flavone, and 4 - amino-flavone were synthesized by the reduction of a mixture of nitro-flavones resulting from the nitration of flavone. The positions of the amino groups in these amines were determined by converting them to the corresponding phenols. Two of the phenols obtained were identical with 3 - hydroxy-flavone and 4 - hydroxy-flavone (both previously prepared by St. v. Kostanecki). The third...

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