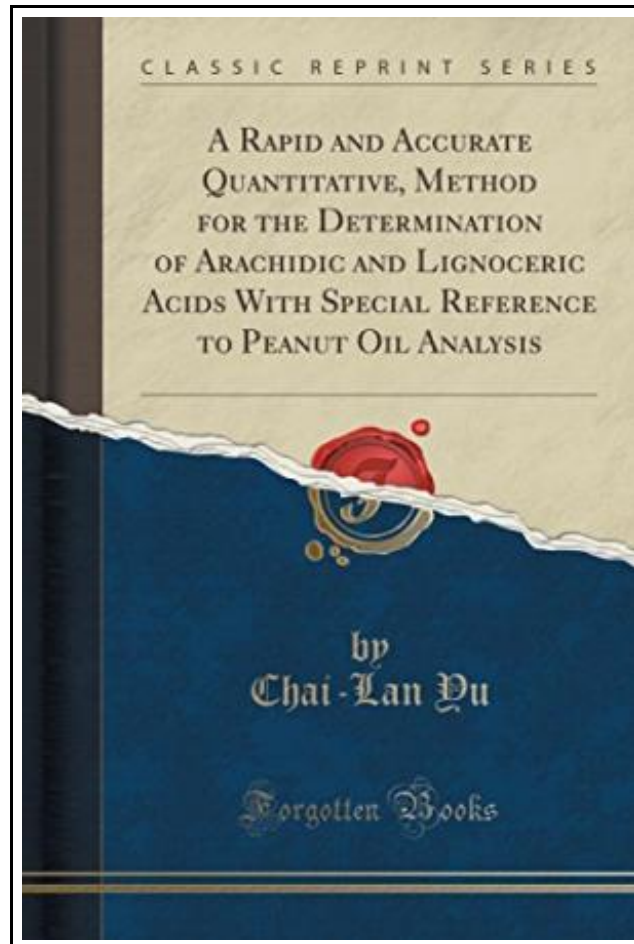


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from **A Rapid and Accurate Quantitative, Method for the Determination of Arachidic and Lignoceric Acids With Special Reference to Peanut Oil Analysis** 1. General Statement Peanut oil is obtained by expressing or extracting the seeds of *Arachis Hypogaea*, L. Leguminosea. Although two decades ago its importance was not recognized, to-day it ranks third in the vegetable oil industry. In 1912, importation by the United States was only 7,626,000 pounds, but in 1919 it leaped to 87,000,000 pounds. China, a young champion in the peanut oil industry, has been cultivating the plant on a large scale for home consumption for more than two thousand years, and to-day is increasing her annual exports to this country and to the other parts of the world. On account of its growing prominence in commerce, it has been long felt necessary to invent a more convenient method than the Renard-Tolman or its modifications, for a rapid and accurate determination of the characteristic acids in peanut oil in order to establish its genuineness and also its presence, as an adulterant, in other vegetable oils. The purpose of this research is to find such a method, based upon sound chemical principles, to study its optimum experimental conditions and to investigate sources and limits of errors, so that it will give consistent and reproducible quantitative as well as qualitative results. 2. Historical Alexandre and Cadet, in 1815, reported the striking hardness of soaps made from peanut oils. Thirty-nine years later, Gossmann, in isolating the saturated acids by means of fractional precipitation with alcoholic and ammoniacal solutions of magnesium acetate and recrystallization of the solid acids from alcohol, discovered arachidic acid, melting at 73 .5-75...



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