



The Fractionation of Crude Petroleum by Capillary Filtration: Dissertation Submitted to the Board of University Studies of the Johns Hopkins University in Conformity with the Requirements for the Degree of Doctor of Philosophy

By Marshall Perley Cram

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from The Fractionation of Crude Petroleum by Capillary Filtration: Dissertation Submitted to the Board of University Studies of the Johns Hopkins University in Conformity With the Requirements for the Degree of Doctor of Philosophy When in process of refinement, black vaseline is filtered through warm dry fullers earth the first product is an oil perfectly liquid at ordinary temperatures, while the succeeding portions are progressively more viscous until quite hard vaseline is obtained. This observation, that a fractional separation of oils in vaseline had been effected, suggested to D. T. Day that a like result might be obtained with crude petroleum. He applied this method to a sample of the green crude petroleum from the third sand, Venango County, Pennsylvania, and found that light products, chiefly gasoline, first appeared when such crude oil was allowed to filter down through a long glass tube filled with granulated or powdered fuller's earth. Following this a more elaborate system of specially constructed funnels similar to those used by the refiners of vaseline in testing the comparative value of various...



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