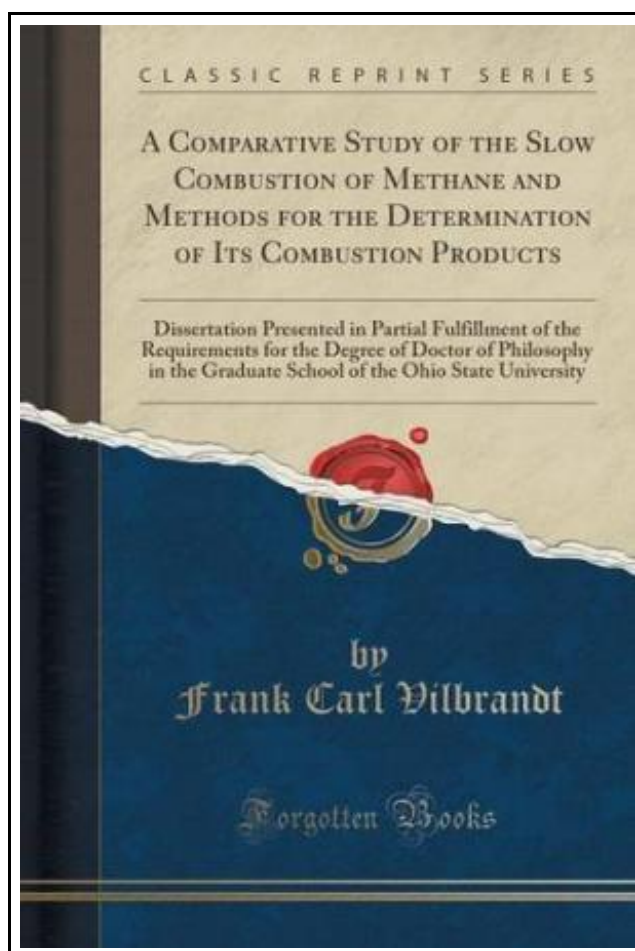


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from **A Comparative Study of the Slow Combustion of Methane and Methods for the Determination of Its Combustion Products: Dissertation Presented in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy** in the Graduate School of the Ohio State University The slow combustion methods consist in passing the combustible gas slowly into an oxidation chamber filled with oxygen or air, the combustion initiated by an electrically heated coil. The combustion pipet of Clemens Winkler (Ztsch. anal. Chem. 28, 288, 1889) was modified by the following investigators: Dennis and Hopkins (Dennis Gas Analysis 1913, 148), Bretschger (Treadwell-Hall. Quantitative Analysis , 3rd Edit. J. Wiley Sons, p. 790), Burrell and Siebert (Bur. Mines Bull. 42, 17, 1913), Voldere (Chem. Ztg. 31, 1296, 1907), Scott (Ind. Eng. Chem. 1, 118, 1909), Burrell (U. S. Pat. 1, 176, 199, [1917]), Anderson (Ind. Eng. Chem. 11, 292, 1919) and Demorest (Private communication). The main disadvantages of this method are the incompleteness of combustion, formation of oxides of nitrogen, breakage of apparatus in the hands of non-experts and errors due to oxidation of the confining material. The capillary method of combustion, introduced by Coquillon (Compt. rend. 85, 1106, 1877) consisted in passing a previously mixed quantity of the gas and oxygen or air through a heated platinum tube, oxidation produced only in the presence of the platinum. This apparatus was later modified by Drehschmidt (Ber. 21, 3242, 1888), Wohl (Ber. 37, 433, 1904), and Roehart (Ztsch. anorg. Chem. 38, 78, 1908); The same method modified by using quartzware instead of platinum for the capillary, but using various forms of platinum in the tube for catalysis were introduced by Sabatier (...)



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