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## 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

By Frank Carl Vilbrandt

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...



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