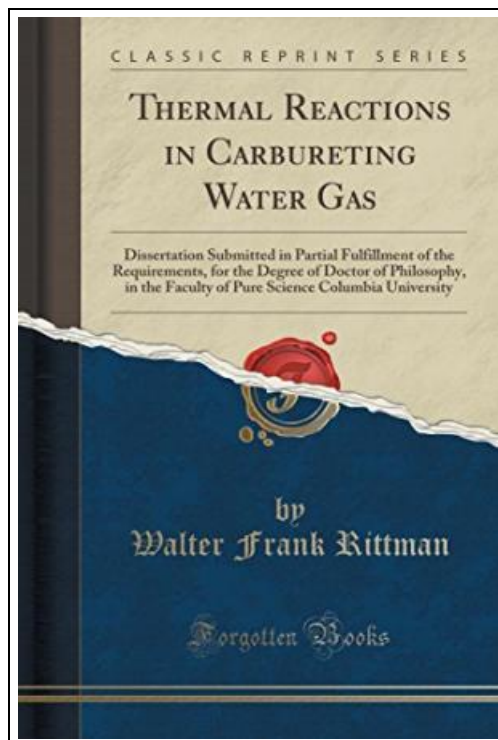


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Thermal Reactions in Carbureting Water Gas: Dissertation Submitted in Partial Fulfillment of the Requirements, for the Degree of Doctor of Philosophy, in the Faculty of Pure Science Columbia University Much careful scientific work has been done on the equilibria involved in the manufacture of uncarbureted blue water gas. In the combined processes of manufacturing and carbureting blue water gas according to present practice, few experiments have been made on the equilibria of the constituents to find out the effect of varying pressure, temperature and concentration conditions. In the technical literature of gas manufacture, one rarely finds a reference to the relationship which may exist between the spheres of reaction in the process. The natural conclusion has been that the water gas and oil gas reactions are separate and influence each other but little. It is proposed to consider some of the factors in which the  $H_2$ ,  $CO$ ,  $CO_2$  and  $H_2O$  of the blue water gas may affect the proportions of  $CH_4$ ,  $C_2H_4$ ,  $H_2$ , etc., resulting from the cracking of the gas oil which is added. Likewise the influence of the gases coming from the oil on the percentage composition of the final gas mixture will be considered. When the blue water gas or oil gas are manufactured in separate operations, hydrogen is the only gas which is found in the free state, in any quantity. But if the two gases, separately made, should be brought together at high temperature in a container such as a gas plant superheater, would there not be new equilibria to be satisfied? For example, might not the  $CO$  and  $H_2$  of one become  $CH_4$  equilibrium conditions tend to establish themselves...

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