

ABSTRACT

I. UNTERSUCHUNG DER FISCHER-TROPSCH-SYNTHESE-REAKTION MIT HILFE DER C-BILANZ-RECHENMETHODE. E. Weingaertner, *Erdoel und Kohle*, **8**, 1955, 864-73.

A complete reaction scheme for Fischer Tropsch synthesis reactions is being developed, based on C-Balance calculations. It results in the formation of a polymerization equation and separate calculation of the hydrogenation part of the hydrogen, used in the reaction apart from reduction, for hydrogenation of primary olefines into paraffins. Knowledge of the hydrogenation-hydrogen allows investigation in the nature of synthesis products and their probable formation. Correlations between formation of methane, paraffins and olefines are being discussed.

A complete reaction scheme is being proposed which indicates the role of the different partial reactions in the overall reactions.

This paper is identical with the publication "Investigations in Fischer Tropsch Synthesis Reactions by C-Balance, Parts I, II and III published in the *Journal of the Indian Institute of Science*, 1955, **37** (3), pp. 215-25 and 1955 **37** (4), pp. 283-88 and 289-303.