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THE BRITISH COAL UTILISATION RESEARCH ASSOCIATION

PRODUCER GAS TRANSPORT RESEARCH

THE CHEMISTRY OF GASIFICATION,  
WITH SPECIAL REFERENCE TO SMALL PRODUCERS

- by -

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Foreword

The present note is an attempt to summarise the known facts concerning gasification and to relate them to the experimental work done between September 1939 and January 1940 on the B.C.U.R.A. research producers. For the convenience of readers not interested in the thermodynamics and pure chemistry of the processes a summary of some of the practical conclusions has been given in section 7 and this may be read in conjunction with sections 2 and 3, omitting sections 4 to 6 and the Appendices which describe the results of more fundamental investigations.

Only the principal reactions between carbon, oxygen and steam are discussed and a further circular will deal with the minor reactions which complicate the gasification process and which in some cases may materially affect the design and operation of equipment.

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