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1 LITERATURE SURVEY OF HIGH TEMPERATURE
SEPARATION PROCESSES

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A LITERATURE SURVEY OF HIGH TEMPERATURE SEPARATION PROCESSES

By

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Advance Process Development
Research and Engineering Operation
CHEMICAL PROCESSING DEPARTMENT

April 8, 1957

INTRODUCTION

A survey of the literature of high temperature processes has been made to assist in scoping research programs consistent with HAPO requirements. No effort has been made to exhaust the subject but merely to review with sufficient thoroughness to obtain an understanding of the theory, present status, and ultimate potential of the various processes. It is hoped that no promising approach has been overlooked.

This work has culminated in proposals for development of a pyrochemical dissolution and head-end process and, ultimately, a complete pyrochemical process. This phase of the work could justifiably be terminated were it not that an extensive bibliography in the writer's possession would then be of little value to others. It is the purpose of this report to present this bibliography with a minimum of annotation.

ORGANIZATION

The references in the bibliography are sub-divided by subject matter. In the first section, reports of a general nature are listed which may furnish a chronological picture of developments in the field. The second section is

devoted to theoretical papers, principally thermodynamics. Ensuing sections concern various unit operations, halide volatility, head-end, and miscellaneous subjects.

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