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RADIO AND ELECTRICAL ENGINEERING DIVISION

ANALYZED

BIBLIOGRAPHY ON  
HIGH VOLTAGE TRANSMISSION LINE CORONA AND RADIO INTERFERENCE  
AND  
FUNDAMENTAL CORONA PROCESSES

A. S. DENHOLM

OTTAWA  
APRIL 1956

## BIBLIOGRAPHY ON

a) HIGH VOLTAGE TRANSMISSION LINE CORONA AND RADIO INTERFERENCE

b) FUNDAMENTAL CORONA PROCESSES

- A.S. Denholm -

### INTRODUCTION

With the increasing transmission distances necessary as local natural resources become exhausted the tendency is to higher transmission voltages. This creates the problems of losses and radio interference due to corona, and an investigation into this field is in its early stages at the National Research Laboratories. A considerable volume of references has been collected — both on the problem as it affects transmission lines and on the fundamentals of the corona processes. The bibliography which follows is divided into two parts — Section (a) containing references applying to transmission lines, and Section (b) references applying to corona discharge fundamentals. It is hoped that this publication will be of assistance to power companies considering higher voltage transmission and to others in the same field. Some of the articles from non-English sources are being translated at the National Research Laboratories.

At the end of Section (a) several references are included which are not on the subject of corona or radio interference but deal with the properties of bundle conductors, considered by many to be the answer to very high voltage transmission problems.

The bibliography is presented in chronological order, titles first, and at the end of each of the two sections an author index is arranged alphabetically.

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