Applied Physics
Electrical Engineering

Spark Discharge is a first-of-its-kind text, providing a comprehensive and systematic description of the spark breakdown of long gas gaps. It discusses the nature of a long spark, physical peculiarities of relevant gas discharge processes, methods and results of experimental studies, and analytical and numerical models. The most important applications in high-voltage engineering are covered in a single volume.

Features

- Gives an overview of the phenomena underlying the mechanism of spark discharge
- Classifies and generalizes experimental and theoretical models and gives a general theory of the process
- Presents physically substantiated methods to solve problems in high-voltage engineering and lighting
- Contains original illustrative material that helps the reader understand the details of the space–time pattern of the process and important relations between spark parameters
- Considers experimental methods and warns against common misunderstandings

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