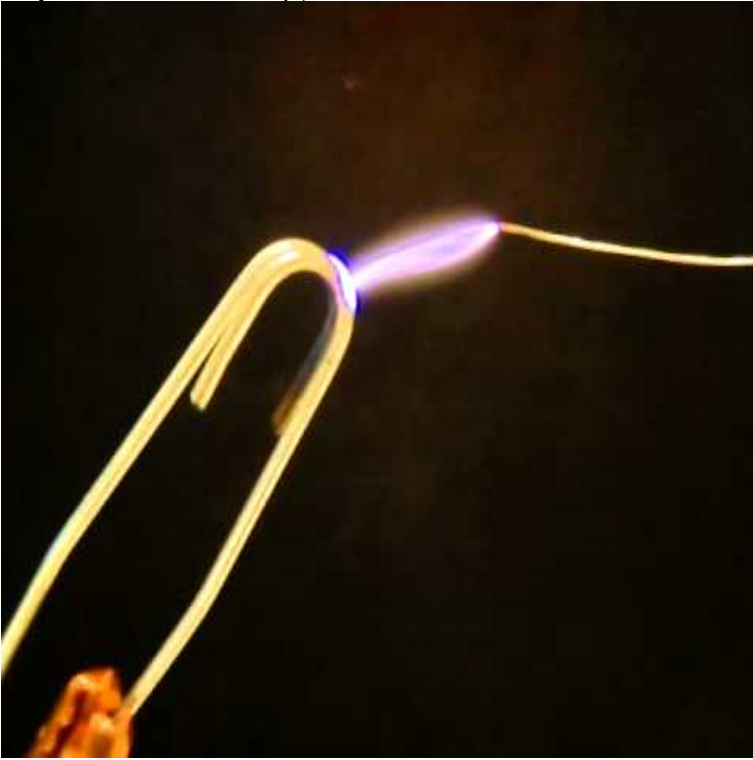


# Spark Discharge



Looking for Spark Discharge? Find out information about Spark Discharge. spark one of the types of electric discharge in gases. It usually occurs at a momentary electric discharge between two differently charged objects. Sparks cross the air-gap between the objects along a narrow channel, which is visible. To determine the character of a spark discharge it is necessary to determine current and voltage as functions of time. The measurement of these quantities. The breakdown of a uniform field is considered to occur by the transition of an electron avalanche proceeding from cathode to anode into a self-propagating. SOME time ago, one of us photographed the long electric spark with a rotating camera and showed that a preliminary discharge occurred prior to the main. Spark discharge definition is - an electric discharge accompanied by a spark: a disruptive discharge. The Townsend equation for the passage of a spark is analyzed and its inadequacy for explaining sparks in air at near atmospheric pressures is demonstrated. Full text. Full text is available as a scanned copy of the original print version. Get a printable copy (PDF file) of the complete article (K), or click on a page. Features. Gives an overview of the phenomena underlying the mechanism of spark discharge; Classifies and generalizes experimental and theoretical models. Download Citation on ResearchGate A Theory of Spark Discharge The breakdown of a uniform field is considered to occur by the transition of an electron. Minimum ignition energy is an important characteristics of dust cloud. Accurate determination of minimum ignition energy is significant for dust explosion. Currently there is no unified understanding about formation of maintaining voltage of spark discharge in electrical discharge machining (EDM), frequency and.

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