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fundamental to electrical breakdown in gases. Many excellent publications provide detailed accounts. In this article, the authors recall contributions drawn from research conducted at the University of Strathclyde (UK) under the direction of David J. Tedford.

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physics

Gas discharges of all important types are discussed: breakdown, glow, arc, spark and corona at radio frequency, microwave and optical frequencies. The generation of plasma electrons at electrostatic and electromagnetic fields, low-temperature plasma generation, and applications to high-power gas

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lasers are treated in detail.

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A gas discharge tube, once it has struck, usually has a negative resistance characteristic. This means that the product of the voltage across the tube and the current through it diminishes as

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the current is increased. Thus the current

Gas Discharge Tubes - Introduction

A glow discharge is a plasma formed by the passage of electric current through a gas. It is often created by applying a voltage between two electrodes in a glass tube containing a low-pressure

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gas. When the voltage exceeds a value called the striking voltage, the gas ionization becomes self-sustaining, and the tube glows with a colored light.

Glow discharge - Wikipedia

A gas-filled tube, also known as a discharge tube, is an arrangement of electrodes in a gas within an insulating,

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temperature-resistant envelope. Gas-filled tubes exploit phenomena related to electric discharge in gases, and operate by ionizing the gas with an applied voltage sufficient to cause electrical conduction by the underlying phenomena of the Townsend discharge. A gas-discharge lamp is an electric light using a gas-filled tube; these include

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fluorescent lamps, metal-halide lamps,
sodium

Gas-filled tube - Wikipedia

The use of electrically excited gas discharges significantly predates the invention of the incandescent lamp. Physics labs of yesteryear as well as today have use of a variety of gas filled

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tubes used for numerous purposes involving light generation including spectroscopy, materials analysis,

Gas Discharge Lamps, Ballasts, and Fixtures

The Aerospace Plasma Group specializes in gas discharge and plasma physics phenomena, including their interaction

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discharges of all important types are discussed: breakdown, glow, arc, spark and. corona at radio frequency, microwave and optical frequencies.

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Inside a surge protector with line-conditioning chokes Another common

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surge protection device is a gas discharge arrester, or gas tube. These tubes do the same job as an MOV -- they divert the extra current from the hot line to the ground line. They do this by using an inert gas as the conductor between the two lines.

Gas Discharge Arrestors |

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