



Gas Discharge Physics

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Condition: New. Publisher/Verlag: Springer, Berlin | Here is both a textbook for beginners and a handbook for specialists in plasma physics and gaseous electronics. The book contains much useful data: results of experiments and calculations, and reference data. It provides estimates of typical parameters and formulas in forms suitable for computations. 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, and its application to high power gas lasers are treated in detail. Gas Discharge Physics Here is both a textbook for beginners and a handbook for specialists in plasma physics and gaseous electronics. The book contains much useful data: results of experiments and calculations, and reference data. It provides estimates of typical parameters and formulas in forms suitable for computations. 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 lasers are treated in detail. | 1. Introduction.- 1.1 What Is the Subject of Gas Discharge Physics.- 1.2 Typical Discharges in a Constant...

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The physics of electrical discharges in gases has a long history (Bowers 1991,1998) reaching back into the 17th century; in 1672 Otto von Guericke reported the production of static electric sparks when rubbing sulphur balls with the hand. And thence the physics of proper gas discharges lost its importance in fundamental physics, becoming a branch of applied physics, while plasma physics—its fully ionised twin—shifted to centre stage. This was mainly for two reasons, the interest in fusion research and the