

INFLUENCE OF MOLECULAR AND ELECTRONEGATIVE IMPURITIES ON THE CONTRACTION OF AN ARGON ARC AT HIGH PRESSURE

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The process of contraction of plasma column of an argon arc at high pressure is considered under the influence of molecular and electronegative impurities. It is shown that the main influence caused by dissociation of molecular impurities in working gas. The results of analytical and numerical calculations is studied in comparison to existed experimental data.