

CONSTRICTION OF AN ARC DISCHARGE IN NOBLE GASES AT ATMOSPHERIC PRESSURE

P. V. Porytskyy

The influence of gas medium characteristic on the processes of contraction (constriction) of an arc discharge in atmosphere of inert gases is considered. It is shown that the degree of constriction of an arc discharge is determined by both the thermophysical characteristics of gas medium and the characteristic of electron-atom collisions. It is revealed that the Ramsauer effect has the influence on a character of contraction of an arc discharge.