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THE STUDIES OF PLASMA OF ELECTRIC ARC BETWEEN ASYMMETRIC ELECTRODES

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Abstract

The free-burning electric arc between asymmetric vertically oriented Cu and Ni electrode was studied in this paper. DC discharge of 30 A was investigated. Nickel cathode and copper anode were used in different spatial combinations. It was found that the convective flow plays an important role in spatial distribution of each metal
vapour component in middle section of plasma column.

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