

Numerical analysis of temperature distribution in bottom electrode of DC arc furnace in process

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Abstract

© 2014 Irek Husnemardanovich Israphilov et al. Conducted comprehensive studies of the existing thermal bottom electrode (BE) in process. Considered separately BE coolant. The optimum parameters of copper BE (water-coolant, wall temperatures and geometric parameters) under specific operating conditions calculated.

<http://dx.doi.org/10.12988/ces.2014.48109>

Keywords

Bottom electrode, Forced convective boiling, Heat transfer, Nusselt number