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

Israphilov I., Israphilov D., Bashmakov D., Galiakbarov A., Samigullin A.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

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.

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Keywords

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