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Technology of treatment of building materials with the plasma torch

Galeev R., Nasibullin R., Sadriev A., Sadriev R. Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The paper describes the solutions of the building materials heat conduction problems - heating source power and size definition based on temperature measurements on a material surface and on layers, heating source characteristics and surface temperature identification by temperature measurements on a treated area. The basic problem of the building concrete block heating by mobile Gauss type thermal source are addressed. As a result there are given formulae for an estimation of the plasmatron useful power and maximal temperature on the depth $z \ge 1$ mm with accuracy enough for a practical appliance. Also values of the main technological parameters during the treatment are recommended and the technology of concrete block finish is shown.

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