

## Przegląd Elektrotechniczny

Volume 94, Issue 7, 2018, Pages 26-29

Software development for a new robotic technology of microplasma spraying of powder coatings(Article)

[Nowa zrobotyzowana technologia mikroplazmatycznego natryskiwania powłok proszkowych]

Alontseva, D.Email Author, Krasavin, A.Email Author, Nurekenov, D.Email Author, Ospanov, O.Email Author, Kusaiyn-Murat, A.Email Author, Zhanuzakov, Y.Email Author

Department of Instrument Engineering and Technology Process Automation, D. Serikbayev East Kazakhstan state technical university, 69, Protozanov Street, Ust-Kamenogorsk, 070004, Kazakhstan

Краткое описание

The paper presents the main results of software development for a new robotic technology of microplasma spraying of powder coatings to protect surfaces of industrial parts. The numerical methods have been implemented for modeling temperature fields induced by the radiation treatment of coatings. The proprietary software products have been developed to perform calculations of temperature fields in two-layer heat absorbers under irradiation and to provide the desired trajectory of a plasma source. The laboratory samples with coatings have been obtained. © 2018, SIGMA-NOT. All rights reserved.