DOI: https://doi.org/10.15407/techned2020.04.011

ELECTROMAGNETIC FIELD OF THE INDUCTOR FOR LOCAL ELECTRIC PULSE EFFECTS ON METAL PRODUCTS

Journal	Tekhnichna elektrodynamika
Publisher	Institute of Electrodynamics National Academy of Science of Ukraine
ISSN	1607-7970 (print), 2218-1903 (online)
Issue	No 4, 2020 (July/August)
Pages	11 - 14

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Abstract

The mathematical model has been developed to determine of the induced pulsed density current in the conductive sheet and the current parameters of the inductor contour for non-contact electric pulse processing of materials. Based on the calculated data, the prospects of using inductors in the form of current contours for influencing the weld due to the "electroplasticity" effect in the local area are shown. References 7, figures 5.

Key words: three-dimensional electromagnetic field, pulsed electric current, strong skin effect, weld.

Received: 28.02.2020
Accepted: 07.04.2020
Published: 26.06.2020

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