

DOI: <https://doi.org/10.15407/techned2016.06.083>

MODEL OF ELECTROMECHANICAL RECEIVING TRANSDUCERS OF ULTRASOUND RAYLEIGH WAVE

Journal	Tekhnichna elektrodynamika
Publisher	Institute of Electrodynamics National Academy of Science of Ukraine
ISSN	1607-7970 (print), 2218-1903 (online)
Issue	№ 6, 2016 (November/December)
Pages	83 – 89

Authors

R.P. Myhushchenko¹, G.M. Suchkov¹, O.N. Petrishchev², K.L. Nozdrachova¹

¹ – National Technical University "Kharkiv Polytechnic Institute",
Frunze str., 21, Kharkiv, Ukraine, 61002,
e-mail: suchkov gm@mail.ru

² – National Technical University of Ukraine "Kyiv Polytechnic Institute",
pr. Peremohy, 37, Kyiv, 03056, Ukraine

Abstract

The article deals with the model of the receiver high-frequency ultrasonic pulse Rayleigh waves that extending along the metal surface products. Application of such transducers allows to carry out operational control of large areas of products (sheets, large diameter pipes, a considerable number of other objects of the exploited). Highly efficient apply-ing transducers of this type in the field of acoustic emission, especially in areas of high temperatures, radiation and other fields of information-measuring systems in the power industry, metallurgy, aggressive chemical production, transport, environmental segment. References 8, figures 5.

Key words: metrology, the electromechanical transducer, ultrasound diagnostics, non-destructive testing, environmental monitoring.

Received: 21.04.2016

Accepted: 12.05.2016

Published: 27.10.2016

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Journal of Nondestructive Testing

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<https://doi.org/10.1134/S1061830912090082>

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