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RESEARCH OF AUTOCORRELATION FUNCTION USING THE TRANSFORMATION IN ORIENTED BASIS IN ELECTRICAL CIRCUITS

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Authors

T. Tereshchenko^{1*}, T. Khyzhniak¹, L. Laikova¹, A. Parkhomenko²

¹ – National Technical University of Ukraine "Kyiv Polytechnical Institute",
pr. Peremohy, 37, Kyiv-56, 03056, Ukraine,
e-mail: tatjana.khizhnjak@gmail.com

² – LLC "IT FUTURE COMPANY",
vul. Mezhyhirska, 37, Kyiv, 04071, Ukraine

* ORCID ID : <http://orcid.org/0000-0003-4009-2854>

Abstract

The method for fast calculation of the values of arithmetic autocorrelation functions (ACF) using the transformation in oriented basis is proposed for research of electrical circuits. Recurrent matrix forms calculated by the modeling of typical form of signal allowed simplify the calculation of such functions. The complexity of calculating of arithmetic ACF was compare for different transformations - fast Fourier transformation, Walsh transformation and transformation in oriented basis. References 6, figures 2.

Key words: random process, autocorrelation function, Walsh transformation, transformation in oriented basis.

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