

DOI: <https://doi.org/10.15407/techned2016.04.086>

ALGORITHMS OF OPERATION AND SOFTWARE OF MULTILEVEL SYSTEM FOR MONITORING AND TECHNICAL DIAGNOSTICS OF ELECTRICAL POWER FACILITIES EQUIPMENT

Journal	Tekhnichna elektrodynamika
Publisher	Institute of Electrodynamics National Academy of Science of Ukraine
ISSN	1607-7970 (print), 2218-1903 (online)
Issue	№ 4, 2016 (July/August)
Pages	86 – 88

Authors

M.V.Myslovych, R.M.Sysak, L.B.Ostapchuk, Yu.I.Gyzhko, S.M.Hertsyk

Institute of Electrodynamics National Academy of Science of Ukraine,

pr. Peremohy, 56, Kyiv-57, 03680, Ukraine,

e-mail: mysl@ied.org.ua ; rsysak@ied.org.ua ; vikaost@ied.org.ua ; gyzhko@ukr.net

Abstract

Algorithms and software of multilevel system for remote monitoring and diagnostics of electrical power facilities equipment are discussed. The system enables adaptation to the structure of a particular object, as well as deep diagnosing of such equipment, and has low cost and high efficiency, which is achieved by distributing of computing resources and diagnostic functions between modules of the diagnostic systems that operate at different levels of the hierarchy, as well as by implementation of bidirectional exchange of diagnostic information between those modules taking into account the severity of defects. References 3.

Key words: power electrical equipment, technical diagnostics, multilevel system, software

Received: 07.02.2016

Accepted: 10.05.2016

Published: 21.06.2016

References

1. Myslovych M.V., Sysak R.M. On some peculiarities of design of intelligent multi-level systems for technical diagnostics of electric power facilities. *hnychna Elektrodynamika*. 2015. No 1. P. 78–85. (Ukr) Tek
2. Prokofieva I.V., Shibano S.V., Shazhkov B.D. Analysis of the application of modern technologies of data integration in heterogeneous distributed information systems. Proc. of the International Symposium Safety and quality, 2009. Vol. 1. Available at: <http://cyberleninka.ru/article/n/analiz-primeneniya-sovremennyh-tehnologiy-integratsii-dannyh-v-raznorodnyh-raspredelemnnyh-informatsionnyh-sistemah> (дата звернення: 20.01.16).
3. Hitchin P. Big data unlocks better efficiency. *Power Engineering International*. 2014. Vol. 22. No 10. P. 6–10.

