DOI: https://doi.org/10.15407/techned2020.04.080

METHODOLOGY FOR CALCULATING THE ENERGY CONSUMPTION OF INFORMATION COMMUNICATION SYSTEMS

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	80 - 88

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Abstract

The methodology for calculating the complex parameter of energy consumption for info-communication networks is proposed. Unlike the known methodologies, the proposed technique takes into account heterogeneity and multilayered network. It also takes into account the parameter of power consumption during the downtime of network equipment in the process of processing of service data blocks, which is quite an important task to improve the accuracy of energy consumption at the stage of implementing an energy-efficient network. According to this method, the energy consumption can be calculated for any network architecture and configuration, network devices configuration and equipment from different manufacturers. References 24, figure 4.

Key words: power consumption, info-communication network, DWDM, electrooptics, acoustics, switch, modulator.

Received: 05.12.2019
Accepted: 29.04.2020
Published: 26.06.2020

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