

DOI: <https://doi.org/10.15407/techned2016.01.073>

## **PRACTICAL APPLICATION PECULIARITIES OF AUTONOMOUS DIAGNOSTIC COMPLEXES FOR THERMAL CONTROL OF OVERHEAD POWER LINES**

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| Journal   | Tekhnichna elektrodynamika                                          |
| Publisher | Institute of Electrodynamics National Academy of Science of Ukraine |
| ISSN      | 1607-7970 (print), 2218-1903 (online)                               |
| Issue     | № 1, 2016 (January/February)                                        |
| Pages     | 73 – 80                                                             |

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### **Abstract**

*Using thermal imaging equipment, installed on unmanned quadrocopter, experimental researches of temperature condition of the overhead power transmission line wires were conducted. Provided an example of spline functions statistical method application for prediction of time interval where, under certain conditions, it is possible to reach unacceptable temperatures for studied overhead power transmission line wires. References 14, figures 4, table 1.*

**Key words:** overhead power transmission line, autonomous diagnostic system, unmanned aerial vehicle, prognosis of overhead power transmission line wires temperature conditions.

Received: 20.10.2015

Accepted: 29.12.2015

Published: 29.01.2016

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