

FOREWORD

This issue of the quarterly „Elektryka” contains ten papers, whose authors are employees of Polish scientific centers.

First of them by Dariusz Spalek, presents theoretical analysis of uniqueness for solution of second order partial differential equations and of Maxwell equations in anisotropic and nonstationary region.

The article, by Jarosław Michalak, Michał Jeleń, Grzegorz Jarek describes the use of the AC/DC converter with quasi-sinusoidal input current to model batteries.

In next paper, by Jarosław Michalak and Marcin Zygmantowski are presented hybrid asymmetric multilevel converter.

Author next paper, Sebastian Bartel, discussed the model-driven micropump pulsed electromagnetic and motor control algorithm developed.

A design method of high-frequency Class E inverters is presented in the article, by Zbigniew Kaczmarczyk.

A group of four authors: Janusz Hetmańczyk, Maciej Sajkowski, Thomas Stenzel and Krzysztof Krykowski in the following paper presented a modified model brushless DC motor BLDC PM.

In the next article Rafał Kumala and Katarzyna Łuszcz explains how modeling of power system components (SE) on the example of two programs from the family of EMTP.

Next presented text, by Zygmunt Kowalik, relates to the use of approximation symplectic uneven distribution of vertices to approximate the characteristics of blast-current motor SynRM.

Issues multienergy carriers systems modelling an application to energy flow calculation were the subject of the article by Krzysztof Siekierski and Maximilian Przygodzkiego.

The last paper, co-authored by Tadeusz Białonia, Arkadiusz Lewicki and Marian Pasko described analytical method of selection proportional gains observer of induction motor.

All papers included in this quarterly “Elektryka” received positive reviews in accordance with the accepted principle of double-blind review process.

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