

FOREWORD

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

The authors of the first one, Krzysztof Górecki, Janusz Zarębski oraz Kalina Detka, present some results of measurements of characteristics of the boost converter obtained at the use of choking-coils with different ferromagnetic cores.

The paper by Wiesław Brociek, Stanisław Bolkowski i Robert Wilanowicz presents the results of investigation and simulation of the voltage and currents in the power station equipped with the three-winding transformer 110/30/10 kV.

Paper by Krzysztof Krzysztofa Budnika and Wojciecha Machczyńskiego presents in a tutorial manner methods of the calculation of magnetic fields in vicinity of catenary electric power lines without and with mitigation loops.

Works of Marcin Sowa discuss the application of stamps in the automatic formulation of circuit equations. The first part presents the basic characteristics of the proposed implementation, and in the second part nonlinear system formulation.

Szymon Pasko, author of the next paper, conducted analysis of of EMI filter on insertion loss properties for common mode interference.

Next paper presents results of investigations undertaken by Marcina Fice on the modeling and its impact on the efficiency of recuperative braking.

Paper by Rafała Setlaka and Marcina Fice describes design, develop and control of the Stop&Go system in Mild Hybrid Drive using supercondensator and starter with permanent magnets.

The possibility of realization of 13.56 MHz/500 W inverter at optimum commutation mode is presented in the paper in the article by Marcin Kasprzak

The paper by Marta Kolasa, Rafał Długosz oraz Aleksandra Figas presents an influence of the type of the neighborhood function (NF) on the learning process of the Kohonen neural networks.

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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