Power Electronics

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Power electronics, an intensive scientific and technological direction, exerts substantial influence on the conversion processes of electrical energy. The continuous development of technology for power semiconductor devices with various properties has resulted in the production of fundamentally new topologies of power electronics facilities with high power efficiency and electromagnetic compatibility, which are used in controlled-velocity electric drives and electrotechnics, as well as in the implementation of flexible controlled electric power transmission lines (FACTS) and in static reactive power compensators, power line conditioners based on active filters, etc.

The present number of the journal is devoted to various aspects of power electronics. In ten articles, the results of investigations and practical solutions of

power electronics facilities are presented to specialists. Solutions of the circuit technique and problems of control, modeling, and electromagnetic compatibility are discussed.

The content of articles proposed in the present issue is addressed to a wide circle of readers of the *Elektrotehnika* journal and may be useful for specialists, lecturers of institutes of higher education, and post-graduate students.

G. B. Lazarev,
chief executive of Society
of Power Electronics Engineers,
member of the editorial board
of the *Elektrotehnika* journal