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Title: <u>A new algorithm of processes research in nonlinear discharge circuits</u> **Authors:** SHYDLOVSKA N.A., KRAVCHENKQ D.P., SAMOILENKO V.G., POTOROCHA V.V. **Source:** Tekhnichna Elektrodynamika 5: 3–6, 2007

Title: <u>Numeral computation of three-dimensional electric fields in open areas by means of absorbing boundary conditions</u> **Authors:** REZINKINA M.I., SCHERBA A.A., PERETYATKO Yu.V. **Source:** Tekhnichna Elektrodynamika 5: 7–13, 2007

Title: Quantum-mechanical approach at heating temperature computation of a conductor with electric conduction current Authors: BARANOV M.I. Source: Tekhnichna Elektrodynamika 5: 14–18, 2007

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Title: Authentication of inner parameters of a thyristor electric drive of constant current by its patterns on recurrent neural networks Authors: ORLOVSKYI A. Source: Tekhnichna Elektrodynamika 5: 19–24, 2007 Title: Investigation of a three-phase valve-reactor source of reactive power (RPS) in an inductive and a capacitive mode Authors: FEDIY V.S., NAMESTNIK S.G. Source: Tekhnichna Elektrodynamika 5: 24–27, 2007

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Title: <u>Specified computation of losses components in a power system caused by reactive</u> <u>power of a separate power consumer</u> **Authors:** VOLKOV A.V., MIROSHNICHENKO O.G. **Source:** Tekhnichna Elektrodynamika 5: 53–58, 2007

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Abstracts