

DESIGN AND TECHNOLOGY OF ELECTRONIC MEANS



Editorial board

Editor-in-chief Dr. Sc. (Phys.-Math.), Prof. V.G. Prokoshev Established in 2001

Deputy editor-in-chief Dr. Sc. (Tech.), Prof. A.G. Samoylov

Assistant editor Ph. D. (Tech.), Assoc. Prof. S.A. Samoylov

Deputy assistant editor I.L. Kuznetsova

Editorial Board members: Dr. Sc. (Tech.), Prof. M.K. Bagdasaryan (Armenia), Dr. Sc. (Tech.), Prof. Y.A. Bryukhanov, Dr. Sc. (Tech.), Prof., Corr. mem., RAS Y.B. Zubarev, Dr. Sc. (Tech.), Prof. N.N. Davydov, Dr. Sc. (Tech.), Prof. S.V. Kizima, Dr. Sc. (Tech.), Prof. S.N. Kirillov, Dr. Sc. (Tech.), Prof. V.V. Kostrov, Dr. Sc. (Tech.), Prof. V.P. Krylov, Dr. Sc. (Phys.-Math.), Prof., Corr. mem., RAS S.A. Nikitov, Dr. Sc. (Tech.), Prof. H. Niman (Germany), Dr. Sc. (Tech.), Prof. O.R. Nikitin, Dr. Sc. (Tech.), Prof. I.Ya. Orlov, Dr. Sc. (Tech.), Prof. P.A. Polushin, Dr. Sc. (Tech.), Prof. L.T. Sushkova, Dr. Sc. (Tech.), Prof. J.A. Tamm, Dr. Sc. (Tech.), Prof. N.N. Udalov, Dr. Sc. (Tech.), Prof. V.A. Tsymbal, Dr. Sc. (Tech.), Prof., Corr. mem., RAS V.A. Shakhnov, Dr. Sc. (Tech.), Prof. O.A. Shorin

CONTENT

UDC 681.23

Technology of electronic means

Alekseev V.A., Khodjaev V.D., Bugrov E.V., Egorov R.V., Marin V.P. Improvement of constructive and technological solutions for powerful on-board transceiver modules with integrated phase-transitional heat-accumulating materials 3

Lebedev A.S., Rezhikova E.V. Strategy of designing the operations of technical control in the technology of surface mounting..... 8

Design of electronic devices and complexes

Sadkov V.D., Fomina K.S. The film absorbing element with lines of borders in the look equilateral hyperbolas..... 14

Grishko A.K., Goryachev N.V., Yurkov N.K. Construction of effective system of radioelectronic means based on the analysis of the semumarkov model of electromagnetic compatibility support..... 18

Tyurin S.F. Fault tolerant D-latch..... 26

Processing and signal shaping

Sidorenko A.A. The effectiveness of application of block and convolutional codes to encode a short information message..... 31

Tulyakov Yu.M. Characteristics of signals by their type, absolute value, absolute and relative levels.... 37

Applied research in the field of electronics

Nazarov S.V., Tamm Yu.A., Karpenko V.A. Cost estimation of television content..... 44

Chye En Un, Shein A.B. Methods of conversion of systems of differential equations of first order to the inhomogeneous differential equations in tasks of simulation of electrotechnical and electronic devices..... 51

Brief information about the authors..... 57

Guidelines on formatting materials submitted for the journal publication..... 59

Information about the journal..... 60