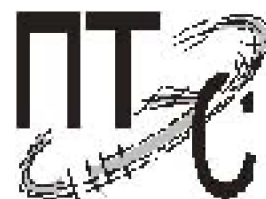




# DESIGN AND TECHNOLOGY OF ELECTRONIC MEANS



Editorial board

**Editor-in-chief** Dr. Sc. (Tech.), Prof. A.V. Fedin  
**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

Established in 2001

**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.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. (Phys.-Math.), Assoc. Prof. A.O. Kucherik, Dr. Sc. (Tech.), Prof. M.Yu. Monahov, 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. 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

*Kostin A.V.* Analysis of the effect of radiation on the temperature of printed conductors of printed circuit boards on a metal base for spacecraft devices .....3

*Maklashov V.A., Piganov M.N.* Design features of electronic countermeasures equipment..... 10

*Shumarin S.V., Bogachev A.M.* Experience of parametric identification of the SPICE-model of a TTL microcircuit..... 16

### Design of electronic systems and complexes

*Samoylov A.G., Samoylov V.S., Nasir S.A.X.* Features of radio wave propagation on radio lines space vehicle - Earth station.....21

*Polushin P.A.* Adaptive transmission system of phase modulated digital signals..... 28

*Sabirov .R.* Providing stability of the modulator parameters of the decameter range transmitter..... 34

*Brostilov S.A., Brostilova T.Yu., Goryachev N.V.* Design of a fiber optical microdisposition converter electronic device..... 40

### Modeling of electronic devices

*Khramov K.K., Tolstov E.F., Kostrov V.V.* Investigation of an algorithm for estimating the tangential velocity of an object for space SAR.....45

*Maleev D.V.* Data processing optimization for low latency realtime mode in IP Link One audio codec ..... 51

**Brief information about the authors**..... 58

**Information about the journal**.....60