**"Giroskopiya i Navigatsiya" №4, 2011**

**CONTENTS**

|  |  |
| --- | --- |
| *V.A. Smirnov, V.V. Savel’ev, V.S. Zakharikov* LOS stabilization and pointing system with extended field of view  [abstract](http://www.elektropribor.spb.ru/en/n4_2011.html#a1) | 3 |
| *А.А. Bagiyan* Quaternion-based algorithm of ground target tracking by aircraft  [abstract](http://www.elektropribor.spb.ru/en/n4_2011.html#a2) | 11 |
| *G.M. Dovgobrod* Development of an adaptive algorithm for ship motion control on a nonlinear path  [abstract](http://www.elektropribor.spb.ru/en/n4_2011.html#a3) | 22 |
| *A.M. Boronakhin, P.A. Ivanov, E.D. Bokhman, Yu.V. Filatov, I.L. Surov* New complex of test beds for small-sized inertial systems and their sensors  [abstract](http://www.elektropribor.spb.ru/en/n4_2011.html#a4) | 32 |
| *V.E. Dzhashitov, V.M. Pankratov, A.V. Golikov, A.G. Gubanov, М.V. Efremov* Reducing thermal sensitivity of fiber-optic gyros  [abstract](http://www.elektropribor.spb.ru/en/n4_2011.html#a5) | 42 |
| *B.V. Klimkovich* Algorithmic compensation of attitude error in a dithered ring laser gyro  [abstract](http://www.elektropribor.spb.ru/en/n4_2011.html#a6) | 57 |
| *A.V. Egorov, B.E. Landau, S.L. Levin, S.G. Romanenko* Rotor motion of the gimballess electrostatically suspended gyro under the spacecraft orbital flight  [abstract](http://www.elektropribor.spb.ru/en/n4_2011.html#a7) | 63 |
| *L.N.Shalimov, L.N.Belskiy, V.M.Kutovoy, I.A.Tarasov, V.D.Gokhfeld* Test results of the launcher «Soyuz-2» integrated navigation control system  [abstract](http://www.elektropribor.spb.ru/en/n4_2011.html#a8) | 75 |

**Brief notes**

|  |  |
| --- | --- |
| *М.V. Sotnikova* Identification features of the linear model parameters for the ship lateral motion  [abstract](http://www.elektropribor.spb.ru/en/n4_2011.html#a9) | 84 |
| *M.V. Fedorov* Effect of the silicon structure orientation on the properties of micromechanical accelerometers  [abstract](http://www.elektropribor.spb.ru/en/n4_2011.html#a10) | 92 |
| *N.I.Krobka, A.I.Balandin, S.V.Keda, A.I.Tereshkin, D.S.Scherbitskiy* Noise correlation matrices of triaxial fiber-optic gyroscopes  [abstract](http://www.elektropribor.spb.ru/en/n4_2011.html#a11) | 99 |

**Materials of the 18th Saint Petersburg International Conference on Integrated Navigation Systems**

|  |  |
| --- | --- |
| Abstracts of the papers | 105 |

**International Public Association  
Academy of Navigation and Motion Control  
O f f i c i a l i n f o r m a t i o n**

|  |  |
| --- | --- |
| The 32nd General Meeting of the Academy of Navigation and Motion Control | 135 |

**Information**

|  |  |
| --- | --- |
| Russian and international conferences, symposiums, and exhibitions | 137 |
| *List of the materials published in the journal «Gyroscopy and navigation» in 2011* | 149 |