**"Giroskopiya i Navigatsiya" №2, 2012**

**CONTENTS**

|  |  |
| --- | --- |
| *V.A. Tupysev, Yu.A. Litvinenko*Comparative analysis of reduced kalman filters with guaranteed estimation quality [abstract](http://www.elektropribor.spb.ru/en/n2_2012.html#a1) | 3 |
| *A.M. Aleshechkin*Algorithm of GNSS-based attitude determination [abstract](http://www.elektropribor.spb.ru/en/n2_2012.html#a2) | 13 |
| *S.P. Dmitriev, V.M. Zinenko, Yu.A. Litvinenko*Correction and damping of medium accuracy INS using electromagnetic log [abstract](http://www.elektropribor.spb.ru/en/n1_2012.html#a3) | 28 |
| *B.A. Blazhnov, I.Z. Dzhilavdari*Methods of error correction for gravimeter with nonlinear transformation function [abstract](http://www.elektropribor.spb.ru/en/n2_2012.html#a4) | 34 |
| *V.N. Koneshov, V.B. Nepoklonov, I.A. Stolyarov*Using present-day geopotential models in studying vertical deviations in the Arctic [abstract](http://www.elektropribor.spb.ru/en/n2_2012.html#a5) | 44 |
| *D.V. Volynskii, E.V. Dranitsyna, A.A. Odintsov, A.A. Untilov*Calibration of fiber-optic gyros within strapdown inertial measurement units [abstract](http://www.elektropribor.spb.ru/en/n2_2012.html#a6) | 56 |
| *V. Huttunen, R. Piche*A monocular camera gyroscope [abstract](http://www.elektropribor.spb.ru/en/n2_2012.html#a7) | 69 |
| *V. Ragot, G. Remillieux*A new control mode greatly improving performance of axisymmetrical vibrating gyroscopes [abstract](http://www.elektropribor.spb.ru/en/n2_2012.html#a8) | 82 |
| *V.M. Kutovoi, O.I. Maslova, S.Yu. Perepelkina, M.A. Chaptsova, M.V. Antonova, A.A. Ignat’ev, E.Yu. Kovaleva, A.M. Kurbatov, L.Z. Novikov*Evaluating the performance of a FOG-based strapdown inertial measurement unit in ground tests [abstract](http://www.elektropribor.spb.ru/en/n2_2012.html#a9) | 98 |

**Tutorial**

|  |  |
| --- | --- |
| *V.M. Zinenko*Some issues of practical application of suboptimal stationary filters [abstract](http://www.elektropribor.spb.ru/en/n2_2012.html#a10) | 112 |

**Materials of the 14th Conference of Young Scientists “Navigation and Motion Control”**

|  |  |
| --- | --- |
| Abstracts of the papers | 131 |

**International Public Association
The Academy of Navigation and Motion Control
Official information**

|  |  |
| --- | --- |
| The 33rd General Meeting of the Academy of Navigation and Motion Control | 175 |

**Information**

|  |  |
| --- | --- |
| Russian and international conferences, symposia and exhibitions | 177 |
| *Abstracts of the published papers* | 183 |