**"Gyroscopy and Navigation" 2005**

**List of the materials published in the journal in 2005**

|  |  |  |
| --- | --- | --- |
|  |  | **№     page** |

|  |  |  |
| --- | --- | --- |
| **Belobragin V.N., Zaytsev V.D., Raspopov V.Ya., Gorin V.I., Gorin A.A., Dmitriev V.A.,Sorokin V.I., Ermilov S. P.** | Experiment of Gyro-Device Development for Units with Roll Rotation | **4       57** |
|  | Abstract | **4       71** |

|  |  |  |
| --- | --- | --- |
| **Binder Ya.I.** | Strapdown Gyroinclinometer with Main Axis of Two-Axis Angular Rate Sensor Oriented in the Diametral Borehole Plane | **4       23** |
|  | Abstract | **4       31** |

|  |  |  |
| --- | --- | --- |
| **Binder Ya.I., Paderina T.V., Chelpanov I.B.** | Azimuth determination for intricate shape boreholes by weighted-mean estimation method | **3       34** |
|  | Abstract | **3       44** |

|  |  |  |
| --- | --- | --- |
| **Binder Ya.I., Volfson B., Gasparov P.M., Klushkin P.A., Rozentsvein V.G.** | Magnetic Disturbances Compensation in Flux-Gate Inclinometer | **1       68** |
|  | Abstract | **1       75** |

|  |  |  |
| --- | --- | --- |
| **Boedecker G.** | Sensor Orientation from Integrated Multi-Antennae GPS and Gyros | **4       3** |
|  | Abstract | **4       13** |

|  |  |  |
| --- | --- | --- |
| **Bokhman E.D., Burnashev M.N., Filatov Yu.V., Lukianov D.P., Mironov A.V., Pavlov P.A., Aksenenko V.D., Gutner I.E., Epifanov O.K., Matveyev S.I.** | Development and Calibration of Angle Sensors with Microprocessor Autocorrection | **4       72** |
|  | Abstract | **4       82** |

|  |  |  |
| --- | --- | --- |
| **Dmitriev S.P., Koshaev D.A.** | Information Monitoring and Diagnostics of Duplicate Inertial Systems | **2       30** |
|  | Abstract | **2       46** |

|  |  |  |
| --- | --- | --- |
| **Dmitriev S.P., Litvinenko Yu.A.** | Kalman Filter Guaranteeing Alignment at Navigation Systems Error Uncertainty | **1       57** |
|  | Abstract | **1       68** |

|  |  |  |
| --- | --- | --- |
| **Drobyshev N.V., Zheleznyak L.K., Klevtsov V.V., Koneshov V.N., Soloviov V.N.** | Estimation of the satellite altimetry potential for studies of the great ocean gravity field | **3       14** |
|  | Abstract | **3       25** |

|  |  |  |
| --- | --- | --- |
| **Dzhashitov V.E., Pankratov V.M.** | Selection of Elastic Suspension Parameters for the Planar Micromechanical Gyroscope on the Basis of Determining its Natural Frequencies | **4       42** |
|  | Abstract | **4       56** |

|  |  |  |
| --- | --- | --- |
| **Emelyantsev G. I., Landau B. Ye., Levin S. L., Romanenko S. G.** | Drift Calibration for ESG-based Spacecraft Inertial Orientation System Using Celestial Viewfinder | **2       69** |
|  | Abstract | **2       78** |

|  |  |  |
| --- | --- | --- |
| **Fedoskin O.I.** | Data Processing Nonnormal Algorithm for Aircraft SINS | **2       19** |
|  | Abstract | **2       29** |

|  |  |  |
| --- | --- | --- |
| **Feoktistov A.Yu., Shupen K.G.** | Equipment for State Monitoring of GLONASS and GPS Satellite Navigation Systems. Results of Experimental Research | **2       62** |
|  | Abstract | **2       69** |

|  |  |  |
| --- | --- | --- |
| **Hertzman V.E., Ekalo A.V., Zaytsev V.M., Shpektorov S.L., Gerastovsky V.F., Makhnenko Yu.B., Prut V.I.** | Analysis of GLONASS/GPS user navigation equipment errors during taking trajectory measurements | **3       3** |
|  | Abstract | **3       13** |

|  |  |  |
| --- | --- | --- |
| **Lookin N.A., Vodicheva L.V., Ponomarev I.G.** | A Miniature Precise SINS for High Maneuvering Moving Vehicles: Cost Efficiency Analysis for Algorithm Realization | **4       14** |
|  | Abstract | **4       22** |

|  |  |  |
| --- | --- | --- |
| **Loukianov D. P., Tikhonov A. A., Filatov Yu.V., Povalyaev A.G., Shevchenko S. Yu., Popova I V., Lestev á.M., Lestev í.A., Novikov V.V., Vershinin M.S.** | The Development and Optimization of a SAW-Microaccelerometer structure. Part I | **2       79** |
|  | Abstract | **2       94** |

|  |  |  |
| --- | --- | --- |
| **Martynenko Yu.G., Formalsky A.M.** | Methods of Unstable Entity stabilization | **2       7** |
|  | Abstract | **2       18** |

|  |  |  |
| --- | --- | --- |
| **Merkuriev I.V.** | Influence of nonuniform thickness of hemispherical resonator on hemispherical resonator gyroscope accuracy | **3       52** |
|  | Abstract | **3       58** |

|  |  |  |
| --- | --- | --- |
| **Odintsov A.A., Vasilyeva V.B., Naumov Yu.E.** | Analysis of effect of scale factor changes in control lines on output parameters of INS on magnetic gyroscopes | **3       26** |
|  | Abstract | **3       34** |

|  |  |  |
| --- | --- | --- |
| **Peshekhonov V.G.** | Elektropribor and Development of Home Gyroscopy and Marine Navigation | **2       3** |
|  | Abstract | **2       6** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Peshekhonov V.G., Nesenyuk L.P.,**   |  | | --- | | **Kucherkov S.G.,** |   **Evstifeev M.I., Nekrasov Ya.A., Renard S., Pfluger P., Pisella C., Collet J.** | The development of a micromechanical disc-shape gyroscope | **3       44** |
|  | Abstract | **3       51** |

|  |  |  |
| --- | --- | --- |
| **Peshekhonov V.G., Gutner I.E., Zinenko V.M., Savik V.F., Yanushkevich V.E.** | Periscope Complex "Parus-98" | **1       5** |
|  | Abstract | **1       15** |

|  |  |  |
| --- | --- | --- |
| **Slusar V.M.** | Extension of Navigation Sculling-Algorithms Design for Frequency Shaped IMU Data | **1       30** |
|  | Abstract | **1       42** |

|  |  |  |
| --- | --- | --- |
| **Solunin V.L., Gursky B.G., Spirin E.P.** | Correlation-extremal systems for aircraft high accuracy navigation and computer diagnostics of complex diseases | **2       56** |
|  | Abstract | **2       69** |

|  |  |  |
| --- | --- | --- |
| **Tarasov V.N.** | Methods and facilities for separating components of floated gyroscopes errors caused by electric drive | **3       59** |
|  | Abstract | **3       66** |

|  |  |  |
| --- | --- | --- |
| **Tupysev V.A.** | Guaranteed Estimation of the Dynamic System State in the Case of Uncertainty in Description of Disturbances and Measurement Errors | **2       47** |
|  | Abstract | **2       55** |

|  |  |  |
| --- | --- | --- |
| **Volovodov S.K., Cherniaev M.G., Smolnikov A.V., Kaverinsky A.Yu., Volovodov S.S.** | Control Resource Allocation at Marine Movable Vehicles Positioning | **1       43** |
|  | Abstract | **1       56** |

|  |  |  |
| --- | --- | --- |
| **Vorobiov V.A., Merkuriev I.V., Podalkov V.V.** | Hemispherical Resonator Gyro Errors with Allowance for Resonator Vibrations Nonlinearity | **1       15** |
|  | Abstract | **1       21** |

|  |  |  |
| --- | --- | --- |
| **Yemeliantsev G.I., Cai Tijing** | On observability of IMU "Eastern" Drift during Vessel Special Maneuvers | **4       32** |
|  | Abstract | **4       41** |

|  |  |  |
| --- | --- | --- |
| **Yemelianzev G.I., Staroseltsev L.P., Ignatiev S.V., Saunonen A.G.** | Rhumbal Drifts of Strapdown Inertial Module on Fiber-Optic Gyros | **1       22** |
|  | Abstract | **1       29** |

**Brief notes**

|  |  |  |  |
| --- | --- | --- | --- |
| **Dumin, A.F. Korabelschikov V.V.,**   |  | | --- | | **Platonov S.N.,** |   **Surinsky D.M.** | Increasing the Accuracy of Celestial Correction of Strapdown Inertial Orientation System on Electrically Suspended Gyros | **1       76** |
|  | Abstract | **1       83** |

|  |  |  |
| --- | --- | --- |
| **Kaldymov N.A., Kalichman L.Ya., Kalichman D.M., Polushkin A.V.** | Unit for Recording Frequencies and Vibration Levels of Gyromotors | **4       83** |
|  | Abstract | **4       90** |

**Materials of the 6th Conference of Young Scientists   
Navigation and Motion Control**

|  |  |
| --- | --- |
| **Paper abstracts** | **1       84** |

**Materials of the 7th Conference of Young Scientists   
Navigation and Motion Control**

|  |  |
| --- | --- |
| **Paper abstracts** | **3       67** |

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

|  |  |
| --- | --- |
| **Paper abstracts** | **4       91** |

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

|  |  |  |
| --- | --- | --- |
| **Stepanov O.A.** | Seminar for Young Scientists "Navigation and Motion Control" | **1       115** |

|  |  |  |
| --- | --- | --- |
| **Stepanov O.A.** | Land Navigation Systems. State and Prospects | **2       95** |

|  |  |
| --- | --- |
| **5th Asian Control Conference** | **2       121** |

|  |  |
| --- | --- |
| **XIX General Meeting of the Academy of Navigation and Motion Control** | **3       97** |

|  |  |
| --- | --- |
| **XX General Meeting of the Academy of Navigation and Motion Control** | **4       111** |

**Pages of History**

|  |  |  |
| --- | --- | --- |
| **Novgorodsky A.V.** | Inertial Navigation Complex "Tobol" for a Guided-Missile Undersea Cruiser | **1       117** |

|  |  |  |
| --- | --- | --- |
| **Peshekhonov V.G.** | Fifty issues of the journal and seventy years of history | **3       101** |

**New books**

|  |  |
| --- | --- |
| **About the book "Sensors, devices and systems of aerospace and marine instrument-making under thermal actions" by V.E. Dzhashitov, V.M. Pankratov** | **2       123** |

**Information**

|  |  |
| --- | --- |
| **Materials of joint session of Navigation Systems and their Sensors Section and Saint Petersburg Precise Gyroscopy Section of RAS Scientific Council on the Problems of Motion Control and Navigation** | **1       127** |

|  |  |
| --- | --- |
| **Materials of joint scientific session of Navigation Systems and their Sensors Section and Saint Petersburg Precise Gyroscopy Section of RAS Scientific Council on the Problems of Motion Control and Navigation** | **3       105** |

|  |  |  |
| --- | --- | --- |
| **Krobka N.I.** | Euler kinematic problem solution | **3       105** |

|  |  |
| --- | --- |
| **Russian and international conferences, symposiums, and exhibitions** | **3       122** |

|  |  |
| --- | --- |
| **Russian and international conferences, symposiums, and exhibitions** | **1       128** |

|  |  |
| --- | --- |
| **Russian and international conferences, symposiums, and exhibitions** | **2       125** |

|  |  |
| --- | --- |
| **Russian and international conferences, symposiums, and exhibitions** | **4       115** |