**"Gyroscopy and Navigation" 2002**

**list of the materials published in the journal in 2002**

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

|  |  |  |
| --- | --- | --- |
| **Aleksandrov Yu.S.** | Calculation of radial deviation quantiles under normal and close to normal dissipation on the plane | **1       46** |
|  | Abstract | **1       51** |

|  |  |  |
| --- | --- | --- |
| **Barulina M.A., Dzhashitov V.E., Pankratov V.M.** | Mathematical Models of Thermal Control Systems for Micromechanical Gyros | **3       48** |
|  | Abstract | **3       59** |

|  |  |  |
| --- | --- | --- |
| **Bogoslovsky S.V., Sapozhnikov G.A., Kadkin A.O.** | A six-component accelerometer with a magnetic suspension of a sensor | **2       26** |
|  | Abstract | **2       36** |

|  |  |  |
| --- | --- | --- |
| **Evstifeev M.I.** | Errors of a micromechanical gyroscope on a vibratory base | **2       19** |
|  | Abstract | **2       25** |

|  |  |  |
| --- | --- | --- |
| **Hertzman V.E, Chistyakov V.V.** | Anomaly Measurements Rejection Technique for Space Vehicle Trajectory Determination Based on GPS/GLONASS Data | **3       3** |
|  | Abstract | **3       10** |

|  |  |  |
| --- | --- | --- |
| **Kucherkov S.G.** | Determination of the required vacuum level in the operation cavity of a micromechanical gyro oscillator | **1       52** |
|  | Abstract | **1       56** |

|  |  |  |
| --- | --- | --- |
| **Kucherkov S.G.** | Using integrating properties of a vibratory micromechanical gyroscope working in a resonant adjustment mode in creation of a compensation-type angular rate sensor | **2       12** |
|  | Abstract | **2       18** |

|  |  |  |
| --- | --- | --- |
| **Nesenyuk L.P.** | Strapdown inertial systems. A review of the state-of-the-art and prospects for the development | **1       13** |
|  | Abstract | **1       22** |

|  |  |  |
| --- | --- | --- |
| **Odintsov á.á., Vasilieva V.B., Naumov Yu.E.** | Errors of marine inertial navigation systems based on corrected magnetic spherical gyros | **3       11** |
|  | Abstract | **3       22** |

|  |  |  |
| --- | --- | --- |
| **Pelevin A.E.** | Stabilization of a vessel motion on a curved trajectory | **2       3** |
|  | Abstract | **2       11** |

|  |  |  |
| --- | --- | --- |
| **Shebshaevich B.V.** | Main trends in the development of GNSS user equipment | **1       3** |
|  | Abstract | **1       12** |

|  |  |  |
| --- | --- | --- |
| **Stepanov O.A, Blazhnov B.A., Koshaev D.A.** | The Efficiency of Using Satellite Measurements in Determining Gravity Aboard an Aircraft | **3       33** |
|  | Abstract | **3       47** |

|  |  |  |
| --- | --- | --- |
| **Stepanov O.A.** | Integrated inertial-satellite navigation systems | **1       23** |
|  | Abstract | **1       45** |

|  |  |  |
| --- | --- | --- |
| **Tupysev V.A.** | Using Wiener Models for Describing Gyro Drifts and Measurement Errors in INS State Estimation | **3       23** |
|  | Abstract | **3       33** |

**PAPERS PRESENTED AT THE 8th SAINT PETERSBURG   
INTERNATIONAL CONFERENCE ON INTEGRATED NAVIGATION SYSTEMS**

|  |  |  |
| --- | --- | --- |
| **Elkaim G., Parkinson B.** | System identification for precision control of a GPS-autonomous catamaran | **1       75** |
|  | Abstract | **1       87** |

|  |  |  |
| --- | --- | --- |
| **Krauss P., Berberikh S., Bochkovsky A.L., Mikhailov N.V.** | Development of Galileo navigation signals receivers | **1       108** |
|  | Abstract | **1       120** |

|  |  |  |
| --- | --- | --- |
| **Malicorne M., Bousquet M., Calmettes V., Macabiau C.** | Effects of masking angle and multipath on Galileo performances in different environments | **1       108** |
|  | Abstract | **1       120** |

|  |  |  |
| --- | --- | --- |
| **Mandt M., Gade K., Jalving B.** | Integrating DGPS-USBL position measurements with inertial navigation in the HUGIN 3000 AUV | **1       63** |
|  | Abstract | **1       74** |

|  |  |  |
| --- | --- | --- |
| **Schreiber U., Schneider M., Velikoseltsev A., Stedman G.E. , Schluter W.** | Very large ring lasers | **1       88** |
|  | Abstract | **1       95** |

|  |  |  |
| --- | --- | --- |
| **Peshekhonov V.G., Nesenyuk L.P., Staroseltsev L.P., Buravlyov A.S., Blazhnov B.A.** | A fiber-optic gyrocompass and attitude reference system with sensory package rotation | **1       57** |
|  | Abstract | **1       63** |

**MATERIALS OF THE 9th ST. PETERSBURG INTERNATIONAL   
CONFERENCE ON INTEGRATED NAVIGATION SYSTEMS**

|  |  |  |
| --- | --- | --- |
| **Abstracts**of papers |  | **2       57** |

|  |  |  |
| --- | --- | --- |
| **Berzhitzky V.N., Ilyin V.N., Saveliev E.B., Smoller Y.L., Yurist. S.S., Bolotin Yu.V, Golovan A.A., Parusnikov N.A., Popov G.V. Chichinadze M.V.** | GT-1A Inertial Gravimeter System Design Experience and Results of Flight Tests | **3       104** |
|  | Abstract | **3       116** |

|  |  |  |
| --- | --- | --- |
| **Blazhnov B.A., Nesenjuk L.P., Peshekhonov V.G., Sokolov A.V., Elinson L.S., Zheleznyak L.K.** | An Integrated Mobile Gravimetric System. Development and Test Results | **3       92** |
|  | Abstract | **3       104** |

|  |  |  |
| --- | --- | --- |
| **Eissfeller B., Tiberius C., Pany T., Biberger. R., Schueler T., Heinrich G.** | Instantaneous Ambiguity Resolution for GPS/Galileo RTK Positioning | **3       71** |
|  | Abstract | **3       91** |

|  |  |  |
| --- | --- | --- |
| **Elizarov A.A., Konovalov B.S., Konovalov S.F., Mayorov D.V., Polynkov A.V., Trunov A.A.,Yurasov V.V., Kwan Sup Lee** | System of Diagnostics of a Construction Structure State | **2       46** |
|  | Abstract | **2       56** |

|  |  |  |
| --- | --- | --- |
| **Furthner J.** | GALILEO - Only a Better GPS or More? Performance Analysis with the Tool NAV-SIM | **3       60** |
|  | Abstract | **3       70** |

|  |  |  |
| --- | --- | --- |
| **Kryukov S.P., Chesnokov G.I., Troitskiy V.A.** | Experience in Developing and Certifying a Strapdown Inertial Navigation System for Civil Aviation and Creating on Its Basis Modified Systems for Controlling Marine, Ground-Based and Aerospace Objects and Solving Geodetic and Gravimetry Problems | **4       115** |
|  | Abstract | **4       124** |

|  |  |  |
| --- | --- | --- |
| **Napolitano F., Gaiffe T., Cottreau Y., Loret T.** | The First High Performances Inertial Navigation System Based on Fibre Optic Gyroscopes | **4       101** |
|  | Abstract | **4       114** |

|  |  |  |
| --- | --- | --- |
| **Semenov Yu.P., Legostaev V.P., Chertok B.Ye., Gavrilov V.P., Berzin G.A., Udaloy V.A., Revnivykh S.G., Pochukaev V.** | High Elliptical Orbit-Based Informational and Navigational Functional Augmentation of Global Navigation Satellite Systems | **2       37** |
|  | Abstract | **2       45** |

**MATERIALS OF THE 4th CONFERENCE OF YOUNG SCIENTISTS   
ON NAVIGATION AND MOTION CONTROL**

|  |  |  |
| --- | --- | --- |
| **Abstracts**of lectures and papers |  | **3       117** |

**THE MATERIALS OF XXIII CONFERENCE  
IN MEMORY OF N.N.OSTRYAKOV**

**P l e n a r y   s e s s i o n**

|  |  |  |
| --- | --- | --- |
| **Arefyev V.P., Isaev V.I, Sorokin A.V., Shilov I.F., Fridlyander I.N., Kolpachev A.A., Setyukov ï.A., Gopienko V.G., Cherepanov V.P.** | Using high-siliceous aluminium-based powdered alloys in gyroscopic devices for rocket and space technology | **4       23** |
|  | Abstract | **4       28** |

|  |  |  |
| --- | --- | --- |
| **Berman Z.M., Kanushin V.í., Mokhov V.P., Sharygin B.L, Mironov Yu.V.** | Inertial navigation and stabilization system Ladoga-M: the development and test results | **4       29** |
|  | Abstract | **4       38** |

|  |  |  |
| --- | --- | --- |
| **Branets V.N., Platonov V.N.** | Navigation and motion control system of the Russian segment of the International Space Station | **4       13** |
|  | Abstract | **4       22** |

|  |  |  |
| --- | --- | --- |
| **Abstracts**of papers |  | **4       39** |

**BRIEF NOTES**

|  |  |  |
| --- | --- | --- |
| **Buravlev A.P., Golovchenko A.á., Pchelin V.V., Uskov A.V., Sharygin B.L., Sheviakov I.A.** | A strapdown orientation system of the dynamic test bench for investigating characteristics of spacecraft motion control systems | **2       91** |
|  | Abstract | **2       96** |

**INTERNATIONAL PUBLIC ASSOCIATION   
ACADEMY OF NAVIGATION AND MOTION CONTROL   
OFFICIAL INFORMATION**

|  |  |  |
| --- | --- | --- |
| **14th General** meeting of the Academy of navigation and motion Control |  | **4       143** |

|  |  |  |
| --- | --- | --- |
| **Antsev G.V., Sarychev V.A., Tupikov V.A., Turnetskiy L.S.** | Control systems for flying robots | **4       131** |
|  | Abstract | **4       142** |

|  |  |  |
| --- | --- | --- |
| **Information** release about the 13th General Academy meeting |  | **2       97** |

|  |  |  |
| --- | --- | --- |
| **Prangishvili I.V.** | Development of an upper block level system for automated control of A-plant engineering | **4       125** |
|  | Abstract | **4       130** |

|  |  |  |
| --- | --- | --- |
| **The 90th anniversary of B.E.Chertok's birth** |  | **1       121** |

|  |  |  |
| --- | --- | --- |
| **To the 90th anniversary from ë.Magnus' birth** |  | **3       149** |

**INFORMATION**

|  |  |  |
| --- | --- | --- |
| **Materials** | of the joint meeting of the Bureau of Navigation Systems and Their Sensors Section and the Saint Petersburg Section of Precise Gyroscopy of the RAS scientific council on the problems of motion control and navigation | **2       103** |

|  |  |  |
| --- | --- | --- |
| **Materials** | of the joint meeting of the Bureau of Navigation Systems and Their Sensors Section and the Saint Petersburg Section of Precise Gyroscopy of the RAS scientific council on the problems of motion control and navigation | **3       151** |

|  |  |  |
| --- | --- | --- |
| **Materials** | of the joint scientific session of Navigation Systems and Their Sensors Section and the Saint Petersburg Section of Precise Gyroscopy of the RAS scientific council on the problems of motion control and navigation | **2       103** |

|  |  |  |
| --- | --- | --- |
| **Materials** | of the scientific and technical workshop "Deviation survey and borehole navigation" | **2       99** |

|  |  |  |
| --- | --- | --- |
| **Nebylov A.V.** | The 15th IFAC World Congress | **4       145** |

|  |  |  |
| --- | --- | --- |
| **Russian** and international conferences, symposiums and exhibitions |  | **1       125** |

|  |  |  |
| --- | --- | --- |
| **Russian** and international conferences, symposiums and exhibitions |  | **2       106** |

|  |  |  |
| --- | --- | --- |
| **Russian** and international conferences, symposiums and exhibitions |  | **3       152** |

|  |  |  |
| --- | --- | --- |
| **Russian** and international conferences, symposiums and exhibitions |  | **4       150** |

|  |  |  |
| --- | --- | --- |
| **Stepanov O.A.** | The 4th Asian Control Conference | **4       147** |

**NEW BOOKS**

|  |  |  |
| --- | --- | --- |
| **Dmitriev S.P., Pelevin A.E.** | ["Guidance and Control Problems of Marine Vehicle Track-Keeping"](http://www.elektropribor.spb.ru/en/books/book13.html) | **3       155** |

|  |  |  |
| --- | --- | --- |
| **Khimich P.G.** | Review of the book by I.I.Nedzelsky "Marine navigation simulators: problems of choice" | **4       154** |

|  |  |  |
| --- | --- | --- |
| **Nedzelsky I.I.** | "Marine navigation simulators: problems of choice" | **4       153** |

|  |  |  |
| --- | --- | --- |
| **Vereme E.I.** | Review of the book by S.P. Dmitriev, A.E. Pelevin "Guidance and Control Problems of Marine Vehicle Track-Keeping" | **3       156** |

|  |  |  |
| --- | --- | --- |
| **Zhukov Yu.I.** | On the book by Yu.A.Lukomsky, V.G.Peshekhonov, D.A.Skorokhodov "Navigation and control of ship motion" | **2       107** |