

CALCULATING THE VERTICAL COMPONENT OF ATTRACTION OF MASSES HOMOGENEOUS CYLINDERS AND CONES

Yury V. Dementiev

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., Ph.D., Prof. of Department of Geodesy SSGA, tel. (913)901-08-71, e-mail: dir.inst.dzp@ssga.ru

Anatoly I. Kalenitsky

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., Ph.D., Prof. of Department Astronomy and Gravity SSGA, tel. (913)906-74-53, e-mail: kaf.astronomy@ssga.ru

First developed an algorithm for calculating the vertical component of the gravitational influence of a homogeneous mass of the cylinder, cone, and the ball at any point in the coordinate space.

Key words: gravitational influence, vertical component, homogeneous cylinders, cone, sphere.

SQUARENESS AS GEOMETRIC FACTOR IN THE DEVELOPMENT OF GEODESY

Maria L. Sinanskaa

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., graduate student, tel. (913)010-35-56; e-mail: mariya1989@ngs.ru

The role entered by G.N.Teterin in practice and the theory of historical researches on geodesy of «the principles of influence» and «a phenomenon of a right angle» is considered. Nature of evolution of the theory and practice of geodetic works is researched taking into account these factors.

Key words: «the principles of influence», right angle, squareness.

TESTING TOTAL STATION FOR ELEVATION MEASUREMENT ACCURACY UNDER FIELD CONDITIONS

Anton V. Nikonov

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., a post-graduate student of Engineering Geodesy and Information Systems Department, e-mail: sibte@bk.ru

Marzhan E. Rakhimberdina

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., a post-graduate student of Engineering Geodesy and Information Systems Department, tel. (383)343-29-55

Trigonometric leveling with total station is of great practical use, as it is a more efficient technique for height transfer compared with geometrical leveling. The results of the field investigations on elevation measurements by a 2'' total station at the distance of 50 m - 300 m are presented. The mean-square error of the slope angle measurement is determined.

The prospects for trigonometric leveling from the middle to achieve the III class geometric leveling accuracy are shown.

Key words: trigonometric leveling, leveling by total station, height.

DIFFERENCES OF THE REPEATED MEASURING AS OBJECTS OF STATISTICAL ANALYSIS

Natalya B. Lesnykh

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., associate Prof., leading Researcher SSGA, tel. (383)343-29-21

Vladimir E. Mizin

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., senior lecturer, department of geodesy SSGA, tel. (383)344-36-60, e-mail: ssga221@mail.ru

The differences of coordinates and the differences of measurements of traverse are researching as the object statistical analysis.

Key words: monitoring, displacement, analysis, difference, error, coordinate.

NATIONAL FOREST POLICY AS THE BASIS OF RATIONAL USE FOREST GEOSYSTEMS

Valeriy B. Zharnikov

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., Ph. D., Prof., department of cadastre SSGA, tel. (383)361-05-66, e-mail: vestnik@ssga.ru

Anastasia A. Bocharova

Branch «Roslesinforg» «Zapsiblesproekt», 630048, Russia, Novosibirsk, ul. Nemirovicha-Danchenko, 137/1, the engineer, tel. (905)953-43-88, e-mail: [b-anetsan@yandex.ru](mailto:banetsan@yandex.ru)

The main directions of national forest policy and its communication with ensuring rational use of forest geosystems at all stages are considered.

Key words: forest policy, sustainable forest management, forest geosystems management, forest plan, forest management.

CADASTRAL ACCOUNTING OF TRANSMISSION FACILITIES AS CONSTRUCTION (AS A DISCUSSION)

Darya V. Lysykh

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., department of management and laws, tel. (913)900-19-50, e-mail: dara8@inbox.ru

The paper is considered to special aspects research of cadastral accounting of transmission facilities and efficiency of its elements cadastral accounting.

Key words: transmission facilities, cadastral accounting, multicircuit parcel.

TO QUESTION ABOUT ESTIMATION OF EXACTNESS OF AREAS OF LOT LANDS

Dmitry Y. Terentyev

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., graduate student inventory SSGA, tel. (953)765-82-45, e-mail: mover2s@yahoo.com

Consider the formula of the analytical method of determining the area of the land and the mean square error of its definition and are recommended based on a rigorous assessment of the precision of the position of all landmarks plot.

Key words: inventory work, the area of land, the mean square error of determining the area.

ALTERNATIVE APPROACHES TO THE MODERN SOIL CULTIVATION AND IMPROVEMENT OF SOIL FERTILITY (NEW PARADIGM)

Yuriy S. Larionov

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo, St., Ph. D, Prof., of Agronomi, the department of SSGA, tel. (383)351-19-24, e-mail: larionov42@mail.ru

The article is the problem: 1. Are considered the negative consequences of the chemicals utilization on the soil fertiliti, soilbiota and crops productivity. 2. Are considered the new operation principles of plant productivity and resistance of agricultural lands are based on arganic farming. 3. Is formulated the law of soil fertility increasing the potential and effective resourc of agricultural yield and biosphere.

Key words: organic farming, soil cultivation, improvement of soil fertiliti.

DEVELOPMENT DIGITAL TERRAIN MODEL NOVOSIBIRSK AND ITS SURROUNDINGS WITH STREAM STRUCTURE AND PLASTIC OF RELIEF

Dmitry V. Panov

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., a post-graduate student, of chair of ecology and environmental management, tel. (913)760-43-33, e-mail: dima_panov@mail.ru

The article discusses approaches to the analysis of the relief on DEM with flow of substances to identify areas of environmental stress in the city.

Key words: geoinformation systems, digital terrain model, plastic relief.

BASE-CATALYZED INTRAMOLECULAR CYCLIZATION OF AMMONIUM SALTS CONTAINING 3-PHENYLPROP-ENYL GROUP ALONG WITH 3-ALKENYLPROP-2-YNIL GROUP

Lilit V. Ayrapetyan

Scientific and Technological Center of Organic and Pharmaceutical Chemistry NAS RA, 0014, Republic of Armenia, Yerevan, Mr. Yerevan Azatutyan Ave., 26, research associate, e-mail: shhl@mail.ru

It was established the general character of previously discovered isomerization in 3a, 4-dihydroisindolinium salts, including the movement of double bond from β , γ - to α , β -position. It was developed available way to obtaining potentially bioactive new derivatives of bromides of -2, 6, 7, 7 a -tetrahydroisindolium.

Key words: 3-alkenylprop-2-ynyl and 3-phenylprop-2-enyl groups, bromides

of-3a, 4-dihydroisoindolinium, bromides of 2, 6, 7, 7a-tetrahydroisoindolium, isomerization, base-catalyzed intramolecular cyclization.

THE SPEED MEASURING DEVICE AMMUNITION

Valerik S. Ayrapetyan

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plachotnogo St., Prof., Head of the department of special devices and technologies SSGA, tel. (383)361-07-31, e-mail: v.s.ayrapetyan@ssga.ru

Sergey G. Gubin

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plachotnogo St., Associate professor of the department of special devices and technologies SSGA, tel. (383)361-07-31

In a review article the principle and methods of modern devices used to measure the velocity ammunition. Detailed analyzes and compares the basic characteristics of ammunition velocity meters, based on different principles of action.

Key words: Chronograph, ferromagnetic and diamagnetic materials, photoelectric meters, radiometric measure the speed.

MAPPING THE MARKET DISTRICT AND THE REAL POWER DUOPOLY

Yuri A. Golikov

Siberian State Academy of Geodesy, Russia, Novosibirsk 630108, 10 Plakhotnogo St; Ph. D., lecturer of the chair land economics and real estate, tel. (383)210-95-87, e-mail: kaf.zn@ssga.ru

Larisa Yu. Sulgina

Siberian State Academy of Geodesy, Russia, Novosibirsk 630108, 10 Plakhotnogo St; applicant of the chair land economics and real estate, tel. (383)210-95-87, e-mail: island5@mail.ru

Ekonoelektricheskoy based market model proposed formula rate duopolists real power, taking into account the mapping features of urban district, and we calculated this index for example district of Novosibirsk.

Key words: ekonoelektricheskaya model, market, tension force field mapping neighborhood and food.

CONSTRUCTION OF METHODOLOGY OF SCIENTIFIC COGNITION

Mikhail A. Kreymer

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., Ph.D., Assoc. Prof., department of ecology and nature management SSGA, tel. (383)361-08-86, e-mail: kaf.ecolog@ssga.ru

The amount of information is not transferred to a new quality of knowledge, as limited to four analytical measurements. Algorithms can be improved by the construction of synthetic models conclusions. Number of concepts in complex statements can be reduced to a simple conclusion, the definition of numerical sets.

Key words: types told, family of numbers, thinking functions, structuralism, the statistical moments, metaphysics, sizes, psychological functions, polaganiye acts.

THE TECHNOLOGY OF MODERN TECHNICAL AND TECHNOLOGICAL INNOVATIONS

Vyacheslav G. Moushitch-Gromiko

Non-State Educational Independent Non-Commercial Association «Dialectic Research Center "Cosmology. History. Philosophy"», 630049, Russia, Novosibirsk, str. D. Kovalchuk 274, Director, tel.: (383)236-08-96, e-mail: cosmology@cosmologia.ru; alex_boris@mail.ru

The issues of technical and technological innovations based on contingency principle of special supreme world outlook strata of human mind (OTΣ, OΦΣ, OΨΣ, ΣA) towards the sense of the innovations are studied in the article, when this contingency when being realized under the egis of OΨΣ gives different effects in various cases of fusion of functional knowledge and true knowledge.

Key words: knowledge; true knowledge; limit; stylistics; world outlook, vector, contingency, separatedness.

UP-TO-DATE APPROACHES WHEN MONITORING EDUCATION QUALITY AT UNIVERSITY

Igor A. Musikhin

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., director of the International Centre of Education, tel. (383) 341-66-80

The article describes theoretical grounds of inner and independent university educational quality monitoring, up-to-date domestic and world practices of quality ranking, education quality monitoring, and university ranking.

Key words: education quality monitoring, inner monitoring, criterion of monitoring, university ranking.

MODEL OF EDUCATIONAL INNOVATION CLUSTER AS PART OF THE UNIVERSITY

Sergey V. Seredovich

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plahotnogo St., Ph.D., director of IGiM, tel. (383) 343-27-09, e-mail: dir.inst.gm @ ssga. ru

Inna V. Ryazantseva

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plahotnogo St., TsTiP Director, tel. (383) 343-37-01, e-mail: priem.com@ssga.ru

Offer advanced educational model cluster SSGA, including besides the known academic institutions specialized classes of secondary schools, technical high school, technical school, Geodesy and Cartography, outside organizations, as well as a number of research and education centers significantly complement the training of students at each stage of their education.

Key words: cluster model, scientific and educational centers, improving training, innovative development.

THE MAIN MILESTONES OF THE DEVELOPMENT OF THE SAGA – NIIGA&C – SSGA

Valeriy B. Zharnikov

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., Ph.D., Prof., department of cadastre SSGA, tel. (383)361-05-66, e-mail: vestnik@ssga.ru

Mikhail N. Kolotkin

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., Ph.D., head of the department of Humanities SSGA, tel. (383)344-29-76

Alexei G. Osipov

Siberian State Academy of Geodesy, 630108, Russia, Novosibirsk, 10 Plakhotnogo St., Ph.D., head of the department of Management and Law SSGA, tel. (383)361-06-89

The stages of the main events and the results of 80 years of activity only in Siberia Geodetic university, which has become now a major scientific and educational center of international level.

Key words: Geodesic university Siberia Research and Education Center, an international level for 80 years.