

Sadržaj:

- 13 Numerical simulation of hydrodynamics problems with free surfaces by natural element method (*Afanasiev K. E., Karabtcev S. N., Rein T. S.*)
- 23 Numerical aspects of composite shells and plates modeling and the behaviour analisys (*Amelina E. V., Golushko S. K., Yurchenko A. V.*)
- 28 Deformation of plates from alloys with different properties on tension and compression at creep (*Banshchikova I. A., Lyubashevskaya I. V.*)
- 32 Modeling of anisotropic creep by using Hill's theory (*Banshchikova I. A.*)
- 37 Mesoscale models for urban air quality research with high resolution (*Bart A. A., Belikov D. A., Danilkin E. A., Starchenko A. V.*)
- 42 Modeling of the landslide mechanism of tsunami wave generation near the Mediterranean coast of Israel (*Beisel S. A., Khakimzyanov G. S., Chubarov L. B., Shokin Yu. I.*)
- 46 Investigation of potential tsunami hazard in Israel (*Beisel S., Chubarov L., Kit E., Levin A., Shokin Yu., Sladkevich M.*)
- 54 One dimensional model of vertical structure of salt lake (on example of Shira Lake) (*Belolipetskii V. M., Belolipetskii P. V., Genova S. N., Degermendszhi A. G., Rogozin D. Yu.*)
- 63 Identification problems of the coefficients of the parabolic equations (*Belov Yu. Ya., Frolenkov I. V.*)
- 71 Modeling of radio propagation in the land-satellite link through the stormtime ionosphere (*Blaunshtein N. Sh.*)
- 75 Multispectral satellite data correction and preprocessing techniques for simulating of geological and landscape conditions (*Boldyrev I. I., Dobretsov N. N., Martysevich U. V.*)
- 80 Network scan detection statistical algorithm (*Bredikhin S. V., Scherbakova N. G.*)
- 83 2D nonstationary mathematical model of river runoff and water-producing area (*Burakov D. A., Karepova E. D., Shaidurov V. V.*)
- 94 Module structure of a master course «cad and cae systems» (*Burov A. E., Bogulskaya N. A., Moskvicheva L.F.*)
- 98 Regional information-analytical systems and technologies of their implementation (*Bychkov I. V., Gachenko A. S., Lukovnikov N. G., Rughnikov G. M., Fereferov E. S., Hmelnov A. E.*)
- 107 Modeling and performance analysis manufacturing system using Petri nets and Markov chains (*Cvetković S., Cvetković M.*)
- 112 On location of zeros solution of second order complex differential equations (*Dimitrovski D., Vujaković J., Rajović M.*)
- 117 Crop forecasting system based on object-oriented monitoring concept (*Dobretsov N. N., Pchelnikov D. V., Sladkikh L. A.*)
- 121 Mathematical models and application of numerical methods in solving a phenomenon of the theory of thin plates (*Doličanin Č., Nikolić V., Radojković M.*)
- 126 The nonlinear dispersive equations of hydrodynamics on a rotating sphere (*Fedotova Z. I., Khakimzyanov G. S.*)

- 131 A fixed point theorem for mappings with a concractive iterate at a point on D^* - metric spaces (*Gajić Lj.*)
- 135 About gradient extention of successive over relaxation method of solution of system of linear and nonlinear algebraic equations (*Geidarov N. A., Zakharov Yu. N.*)
- 140 Stability of solution of stationary viscous incompressible fluid flow produced by a given pressure drop problem (*Geidarov N.A., Zakharov Yu.N.*)
- 144 Mapping and monitoring of heterogeneouse landscapes by methods of GIS and RS (*Glushkova N. V., Dobretcov N. N., Zolnikov I. D., Korolyuk A. Yu., Lyamina V. A., Smolentcev B. A.*)
- 147 On certain statements of inverse problems in mechanics of composite plates and shells and methods of a solution thereof (*Golushko K. S., Golushko S.K.*)
- 155 Numerical aspects of adaptive harmonic balance method in circuit simulation (*Gourary M. M., Rusakov S. G., Stempkovsky A. L., Ulyanov S. L., Zharov M. M.*)
- 163 Numerical Analysis of Electric Arc by the Relaxation Method (*Jainakov A.*)
- 172 Analytical design of regulator on singulyar perturbations (*Jainakov A. J., Ashirbaev B. Y.*)
- 178 Research of efficiency of parallel realization of fem for initial-boundary problem of shallow water equations (*Karepova E. D., Shaidurov V. V.*)
- 183 Generalized cauchy problem for the description of complicated gas flow with shock waves (*Kazakov A. L.*)
- 188 Some analytical solutions of nonlinear poisson equation for inversion layer of MOS structure (*Kevkić S. T., Petković M. D.*)
- 193 Website ranking for Scientific & Research Organizations of the Republic of Serbia (*Klimenko O. A., Rychkova E. V., Shokin Yu. I.*)
- 198 Information-computing technology for evaluating the geodynamic risks(*Kobalinskiy M. V., Krasnoramenskaya T. G., Peretokin S. A., Sibgatulin V. G., Simonov K. V., Khudoberdin I. R.*)
- 202 Spline wavelet decomposition and parallel compression (*Kosogorov O. M., Makarov A. A.*)
- 206 Some technical difficulties with GeoGebra in high - school mathematics instruction (*Ljajko E., Pavličić Z., Radulović I.*)
- 210 A construction weighted projective plane of order 4 and $(2, 4 - 1)$ -quasigroup (*Mandak A. R.*)
- 215 Numerical simulation of diffraction as test of time acurancy for explicit algorithm (*Martyushov S. N.*)
- 220 Integration of distributed information resources for the power engineering research based on the ontology's application (*Massel L. V.*)
- 224 The numerical modelling a stream of compressible viscous gas of two bodies allocated tandem (*Mausumbekova S. D., Naimanova A. G.*)
- 228 Interaction of the gravity waves with the partially permeable obstacles (*Maximov V. V., Nudner I. S.*)
- 232 Application of information Sciences in digitization of scientific and cultural heritage (*Mijajlović Ž.*)
- 240 Application of low-temperature plasma in steel-making converters (*Milošević H.*)

- 246 Error bounds of Gauss-Turán-Kronrod quadratures with Gori-Micchelli weight functions for analytic functions (*Milovanović V. G., Spalević M. M., Paunović R. Lj.*)
- 251 Acquisition and processing data at the measurement resistance thermometers (*Minić G. S., Vorkapić M., Tanasković D.*)
- 258 Characterization of the heavy doped semiconductors using the analytical approximations of the Fermi integrals (*Mitić Z. D., Kevkić S. T., Petković M. D.*)
- 263 A stochastic model of gamma-ray induced charge in silicon dioxide films of MOS transistors (*Odalović T. M., Petković M. D.*)
- 268 Hyperbolic geometry, curvilinear angles and points of porosity in investigation of boundary properties of functions (*Pavićević Ž.*)
- 271 Second order statistics of ratio of two random variables (*Petrović I., Stefanović Č., Sekulović N., Petrović M., Stefanović M.*)
- 276 Second order statistics of selection macrodiversity system in the presence of fading (*Petrović I., Panajotović A., Spalević P., Panić S., Stefanović M., Milosavljević S.*)
- 283 Statistical causality, weak solutions and martingale problems of stochastic differential equations driven with Brownian motion (*Petrović Lj., Stanojević D., Dimitrijević S.*)
- 287 О сходимости диагональных аппроксимаций (*Petković D., Aranđelović I.*)
- 293 A truly third order finite volume scheme on the quadrilateral mesh (*Petković D., Petrović M.*)
- 303 Kinetics of sintering with mathematical theory of Gropjanov (*Petrović V. V.*)
- 308 Mathematical modelling of capital reinsurance (*Popović Ž.*)
- 314 Creating adaptive moodle-centric courses using business intelligence (*Radenković B., Barać D., Despotović M., Bogdanović Z.*)
- 321 Data Warehouse Solutions for Customer relationship management (*Radenković N.*)
- 325 MS Excel in Mathematics (*Radosavljević D., Ristić J., Milojević S., Milenković N.*)
- 330 Creating WEB Applications using FrontPage and Access (*Radosavljević D. D., Trajković J. S., Ralević T. P., Petrović D. S.*)
- 336 Information system OF STUDENT SERVICES done in PROGRAMS C ++ (*Radosavljević D. D., Trajković J. S., Ralević T. P., Petrović D. S.*)
- 342 One solution for differential equation for non-linear mode PLL loop (*Raičević M. A., Prica S. B.*)
- 347 Mathematics and Information technologies in Russian educational standards (*Reshetnikov M. T.*)
- 349 Servo systems of adaptive control of economic processes (*Reshetnikova G. N.*)
- 354 Research of reliability of complex systems and an acceptable deviation bands estimations (*Rogalyov A. N.*)
- 358 Numerical analysis of the waves propagation processes in elastic-plastic and granular media on multiprocessor computer systems (*Sadovskaya O. V., Sadovskii V. M.*)
- 362 The computational experiment of the spherically symmetric modeling of deep-seated geodynamics (*Shaidurov V. V., Shchepanovskaya G. I.*)
- 368 Content based link spam detection (*Sharapov R. V., Sharapova E. V.*)

- 373 Analysis and segmentation of tables from electronic unstructured documents (*Shigarov A. O., Hmelnov A. E.*)
- 377 Building a resource center for the grid infrastructure (*Shokin Yu. I., Fedoruk M. P., Chubarov D. L., Yurchenko A. V.*)
- 381 Проблемы интеграции информационных ресурсов (*Шокин Ю. И., Федорук А. М., Жижимов О. Л.*)
- 388 Numerical simulations of long waves processes at coastal zone using shallow water model (*Sladkevich M.*)
- 392 Digital signal processing simulation based on the residue arithmetic (*Stamenković N., Stojanović V.*)
- 400 A parallel particle-in-cell code for simulation of charged particle beam dynamics (*Starchenko A. V., Trunov A. A., Turchanovsky I. Yu., Shklyaev V. A.*)
- 405 Level crossing rate of signal at the output of macro diversity system in the presence of fast Nakagami-m fading and slow Gamma fading (*Stefanović M. D., Stefanović M. Č., Pešić Ž. A., Milenković V., Stefanović Č. M.*)
- 412 Discrete autoregressive model of conditional duration (*Stojanović V., Popović B.*)
- 418 Application of geographical information system on the maps (*Valjarević A., Radovanović D., Birovljev N.*)
- 422 Parallel computations in the problems of dynamics of the cosserat continuum (*Varygina M. P., Sadovskii V. M.*)
- 426 An idea for determination of zeros of complex differential equations (*Vujaković J., Rajović M.*)
- 432 Krasner's and Vuković's paragraduations (*Vuković M.*)
- 437 Geospatial WEB information system for environmental monitoring in the area of oil and gas industry (*Yakubailik O. E.*)
- 442 Numerical simulation of three-dimensional non-stationary Navier-Stokes equation using «rotation-vector potential» formulation (*Zakharov Y. N., Ivanov K.S.*)
- 447 About one model of in-situ coal gasification (*Zakharov Y. N., Zakharov M. Y., Zelensky E. E., Potapov V. P., Schastlivtsev E. L.*)
- 453 The fractional q -operators and corresponding equations (*Rajković M. P., Marinković D. S., Stanković S. M.*)
- 459 Ontology concepts of multiagent systems (*Banjanin M., Miladinović D.*)
- 470 Interoperability of information-communication and spatial information infrastructure (*Banjanin M., Drakulić G.*)