

POSTER SESSION

1. **E.S. Balankina** Structural parameters and volumetric-elastic properties of liquids and mixtures.
2. **S.A. Beklemishev, V.L. Klochikhin** Influence of the discreteness and anharmonism on the pinning of solitons in the magnetic crystal field.
3. **V.M. Bogomol'nyi, S.N. Rodivilov** Optimization of the longtime durability of multilayer radioactive wastes (RAW) containers in critical conditions.
4. **N.Y. Bykov, D.V. Leshchev, O.I. Simakova** The Direct Simulation Monte Carlo Of Near-Continuum Flows with Condensation Process.
5. **N.V. Derendyayev, I.N. Soldatov** Wave motions in a rotating layer of conducting viscous fluid in a constant magnetic field.
6. **P. Dyatlova, V. Chaikin, A. Majorov** On numerical methods for investigations of toroidal shells.
7. **V.I. Erofeyev, N.V. Kluyeva, I.N. Soldatov** Waves in rotating elastic media.
8. **S.E. Evlampieva, V.V. Moshev** Modeling relaxation and creep of nano-structural rubber composites.
9. **F. Federico, G. Favata** Runout length of high speed saturated debris flows.
10. **F. Federico, A. Montanaro** Coupled hydraulic and geometrical-probabilistic criteria to model migration of particles through granular media.
11. **V.P. Fedotov, L.F. Spevak** Application of modified BEM for calculation of localized elastoplastic deformations.
12. **V.M. Fomin, E.I. Kraus, I.I. Shabalin** Few-parameter equation of state of the condensed matter.
13. **O.C. Garishin** Nonlinear highly elastic-plastic model of the continuum with volume changing under deformation.
14. **O.C. Garishin, A.L. Svistkov** Experimental and theoretical research of elastic-viscous-plastic properties of polymeric composites with clay lamellar nanofiller.
15. **M. Gitman** The fuzzy sets theory for the stochastic optimization problems of plastic metal working processes.
16. **L.A. Golotina, L.L. Kozhevnikova** Use of mesoelements for modeling mechanical behavior coarse-grained elastomeric composites.
17. **Yu.V. Grinyaev, N.V. Chertova** Field theory of defects and its applications to description of solids deformation.
18. **M.Yu. Gutkin, A.G. Sheinerman** Screw dislocations in two-phase nanowires and hollow nanotubes.
19. **S.G. Ivanov, D.S. Ivanov** New method for correlation analysis of random structure composites.
20. **P.A. Kakavas, E.C. Aifantis** Prediction of the Mechanical Behavior of Collagen Fibrils.
21. **T.I. Kalinina, A.V. Nasedkin** Fundamental solutions in antiplane problem for piezoelectric and elastic media with voids under moving oscillating source.
22. **G. Kashevarova** Investigation of the possibility of different designed model application of "the base - basis" system for a high-altitude building.
23. **D.A. Kitaeva, Ya.I. Rudaev** About analysis of the Entropy into kinematic and thermal conditions of Superplasticity.
24. **V.I. Kolesnikov, E.M. Kolosova, A.V. Nasedkin, M.I. Chebakov** Finite element analysis of contact interaction between elastic bodies with heterogeneities, dislocations and thermal sources applied to a pair wheel - rail.
25. **V. Kolykhalin** Methods of architectural acoustical diagnostics of solid rest of oil product in railway tank wagons.
26. **L.A. Komar, A.L. Svistkov** Oriented state of polymer in the gaps between filler particles in polymer nanocomposite.
27. **K.G. Kostarev, A.V. Shmyrov, A.L. Zuev** An experimental investigation into the stability of stationary rupture of the liquid layer on an immiscible fluid surface.
28. **D.P. Kouzov, J.A. Solovyeva** Diffraction of non-stationary wave, which amplitude linearly increases along the front, by a hard half-infinite screen.
29. **A.P. Krauklis, P.V. Krauklis, A.G. Fatyanov** Resonance phenomena in the layered media with non-rigid interfaces.

30. **P.V. Krauklis, A.P. Krauklis, N.Ya. Kirpichnikova** Whispering gallery waves in the near surface wave guide.
31. **O. Lubimova, A. Ratnikov** Researching of formation process of cylindrical shell consisting of glass and metal.
32. **T.P. Lyubimova, Ya.N. Parshakova** Vibration effect on morphological instability of crystal/melt interface in the directional solidification of binary alloys.
33. **G.A. Maugin, A.B. Freidin, L.L. Sharipova** Modelling the influence of mechanical factors on longitudinal bone growth.
34. **N.N. Myagkov, T.A. Shumikhin, L.N. Bezrukov** Experimental modeling of fragmentation of projectile at hypervelocity impact on discret bumper.
35. **N.V. Nijnik** The analytical solution for discrete-continual equation of machine transmission with the universal joints.
36. **L.Yu. Nikolaeva, A.N. Volkov** Numerical modeling of clusters formation and flow in a magnetron-type cluster source
37. **V.E. Petrov** Effect of chemical reactions on forward enstrophy cascade in quasi 2D turbulence.
38. **M. Potapenko** Self-synchronization of vibroexciters with different variants of kinematic connection.
39. **S.A. Rumyantsev, E.B. Azarov** Computational and experimental investigation of the dynamics of electromechanical system “vibratory conveyer machine -electric motors”.
40. **S.A. Rumyantsev, G.V. Vasilyeva** Demonstration of an adaptive property in two-mass vibrational transport machine of two different models.
41. **R.V. Sagitov, A.N. Sharifulin** Monotonic and oscillatory instability of steady-state regimes of convection in generalized lorenz model.
42. **S. Sargsyan** General Theory of Thin Elastic Shells.
43. **G. Savenkov, B. Barahtin** Fracktal analyse in tests of scabbing.
44. **I.N. Shardakov, N.A. Trufanov, L.A. Golotina, V.A. Bogoyavlenskay** Modeling of deformation processes in crystallizing polymers.
45. **A.N. Sharifulin** Bifurcations of free vibrational thermal convection in annulus in non-gravity.
46. **T.A. Shumikhin, F.A. Kulikov-Kostyushko, A.I. Malkin** Statistical kinetics of quasi-brittle fracture.
47. **A.L. Shvygin** Mlodzeevsky motion and first integral for heavy rigid body with one fixed point.
48. **R.R. Siraev** Theoretical Investigation of Fluids and Gases Filtration in Heterogeneous Porous Medium.
49. **V.A. Skripnyak, E.G. Skripnyak, N. Herzig, L.W. Meyer, L. Kruger** Modelling of the Mechanical behaviour of Ultra Fine-Grained Alloys at High Strain Rates.
50. **E.G. Skripnyak, V.A. Skripnyak** Computer simulation of shock impacts on ultra fine-grained ceramics and ceramics matrix composites.
51. **A.Yu. Smolin, S.A. Dobrynin** Identification of elastic waves generated in friction zone. Computer simulation.
52. **I.Yu. Smolin** Numerical analysis of time-dependant damage resulting in roof fall in coal mines.
53. **Jiraphon Srisertpol, Chanyut Khajorntraidet, Jermtong Prattanarak** Adaptive algorithms for suppressing beam vibration of dual cantilever mass absorber.
54. **Yu.P. Stefanov** Numerical modelling of consolidation and high-porosity geomaterials behavior under loading.
55. **A. Stupka** Influence of waves of field correlations on gas dynamics.
56. **V.D. Sulimov, P.M. Shkapov** Application of particle collision algorithms to VVER-1000 coolant phase condition diagnostics.
57. **E. Sviageninov** Cyclic Energy Flow Systems.
58. **E.L. Tarunin** There is no necessity to rewrite textbooks of mechanics.
59. **T. Tovstik** On the motion and stability in the atom lattice of graphite.
60. **N.A. Vaganova** Simulation of heat propagation from deepen pipeline with accounting filtration and solar radiation.
61. **E. Vilchevskaya, A. Freidin** Modeling coupled interaction between crack growth, stress-assist diffusion and chemical reactions.

62. **I.N. Wasserman** Dynamic behavior of sucker rod strings in some abnormal conditions.
63. **Shie-Chen Yang, Tzuoh-Fei Mau** Segregation and mixing processes of binary granular mixtures under horizontal vibration.
64. **T. Yaroshevich, N. Yaroshevich** Investigation of dynamic process in vibration machine with unbalanced vibro-exciter and asynchronous electric motor.
65. **G. Yazici, C. Ustundag** Seismic Isolation of Conical Liquid Storage Tanks with Friction Pendulum System.
66. **A. Zaitsev, N. Zlobin, A. Ivanitskiy** Thermo-mechanical model for usage of flexible graphite seals.
67. **B. Zimin, U. Sudenkov, N. Vovnenko** Specialty description for the solution problems dynamical thermoelasticity for heat-conducting medium.