

POSTER SESSION

1. **S. Al-Lubani, A. Al-Dwairi, O. Al-Araidah.** Vibration analysis of winder machines with sprung roller followers.
2. **A. Alabuzhev, D. Lyubimov.** Dynamics of non-equilibrium gas-vapour bubble under the vibrations.
3. **A. Alabuzhev, K. Lebedeva.** Parametrical instability of cylindrical drop.
4. **A. Alabuzhev, A. Ogleznev.** Dynamics of two bubbles in the volume of incompressible liquid.
5. **V. M. Aniskin, K. V. Adamenko.** Friction factor in smooth circular microchannels.
6. **V. M. Aniskin, A. A. Maslov, A. N. Shpilyuk, V. A. Seleznev, V. Ya. Prinz.** Micro hot-tubes array: measurements and flow control.
7. **I. Zebiri, L. Bencharif, M. Bencharif.** The solvatothermal synthesis and crystal structure of tetratriafulvalene hexamolybdate (VI), [(TTF)₃(CH₃CN)(Mo₆O₁₉)].
8. **E. K. Bezoyan.** Nonlinear deformation of anisotropic nonhomogeneous viscoelastic shells.
9. **S. Saadallah, K. Taleb, T. Dorbani, A. Boubertakh, S. Hamamda.** Thermal expansion coefficient of an aluminium based sheet.
10. **S. Saadallah, T. Dorbani, K. Taleb, A. Boubertakh, S. Hamamda.** Anisotropy study of AlMgSi sheet.
11. **M. L. Moussaoui, M. Merzoug, K. Brahim.** Geared systems dynamics.
12. **A. Khromov, A. Bukhanko, O. Patlina.** The blunting of the crack tip.
13. **E. L. Aero, A. N. Bulygin.** Solutions of the 3D Sine-Gordon equation.
14. **Z. Burzic, D. Gaco, M. Burzic.** The effect of service conditions on crack initiation and propagation in welded joint of high-alloy steel x20.
15. **S. Chivilikhin.** Strict results for Stokes flows with free boundary.
16. **S. Chivilikhin.** Electrophoretic nanodiamonds deposition.
17. **P. D. Pedrosa, J. M. A. Rebello, M. Cindra Fonseca.** Residual stress state behaviour under fatigue loading in stainless duplex steel.
18. **D. Dahmoun, S. A. Kaoua, M. Azzaz.** The weairephelan model for the metal foam open cell.
19. **V. N. Demidov.** To one approach to the construction of exact solution of one-dimensional dynamic equation of elasticity theory for stratified media.
20. **A. I. Dmitriev, W. Osterle.** Numerical modeling of dry friction sliding in pad-disc interface at the nanometer scale.
21. **S. E. Evlampieva, V. V. Moshev.** Structural model of the time dependence of elastomeric nanocomposites.
22. **O. C. Garishin.** Modeling of interaction of the atomic force microscope probe with the nonlinear elastic polymeric material.
23. **L. A. Golotina, L. L. Kozhevnikova.** Investigation of the influence of structural parameters on mechanical properties of coarse-grained elastomeric composites.
24. **L. A. Golotina, I. N. Shardakov.** Modeling of deformation processes in amorphous-crystalline polymers.
25. **Yu. A. Gorbatkina, A. J. Gorenberg, D. A. Gorenberg, V. G. Ivanova-Mumjjeva.** The crack initiation and propagation at the fibre/matrix interface.
26. **A. Ya. Gorenberg, D. A. Gorenberg, S. A. Timan.** Mechanisms of slow stepwise crack propagation in polymer based on epoxy resin.
27. **E. Gridasova.** Calculation of thermal stresses in composite material on base glass and metal.
28. **K. Hamouda, T. Sayah, S. Lebaili, A. Babitchev.** Surface treatment by vibration of sintered materials.
29. **S. A. Kaoua, D. Dahmoun, E. Belhadj, M. Azzaz.** A finite element modeling of the metal foam open cell.
30. **N. Kizilova, M. Hamadiche.** Flow stabilization by multilayered compliant walls.
31. **N. V. Kluyeva, V. I. Erofejev, I. N. Soldatov.** Influence of surface effects on the propagation of quasi-Lamb waves.
32. **L. A. Komar, A. L. Svistkov.** Changes in the orientation state of polymer molecules in the space between filler particles.

33. **A. P. Krauklis, P. V. Krauklis, V. L. Ustinov.** Low frequency guided waves in poroacoustic layer.
34. **P. Kroneld, T. Lienes, K. Nevala.** On State-feedback controlled active and semi-active suspensions for 4 axle heavy off-road vehicle.
35. **O. N. Kryukova, A. G. Knyazeva.** Regimes of transformation in intermetallic systems with inert particles in conditions of controllable coating synthesis on base.
36. **L. B. Zuev, B. S. Semukhin, A. G. Luney.** Use of acoustic parameter measurements for evaluating the reliability criteria of machine parts and metalwork.
37. **C. Miclea, C. Tanasoiu, C. F. Miclea, A. Iuga, M. Cioangher.** Ultrasonic transducer for nondestructive testing on civil engineering.
38. **C. Tanasoiu, C. F. Miclea, A. Iuga, M. Cioangher, L. Amarande, C. T. Miclea, M. Susu, C. David, I. Voicu, V. Malczanek, C. Miclea.** A new piezoceramic material for a sandwich type transducer used for NDT of civil engineering structures.
39. **O. Nekhamkina, M. Sheintuch.** Transversal patterns in moving or oscillatory-fronts of advection-reaction-diffusion systems.
40. **A. I. Oleinikov, K. S. Bormotin.** Development and application the steady creep theory for transversely isotropic material with the different properties at a tension, compression and shear.
41. **M. Pantic, D. Vujic, Z. Burzic, M. Burzic.** The effect of fiber orientation on fracture properties of carbon fiber-epoxy composite.
42. **M. Podolsky.** On influence of oil film inertia forces in rotors dynamics.
43. **M. H. Pol, A. Bidi, A. V. Hoseini.** Estimation of natural frequency of special bearing system.
44. **E. V. Polyakova, V. A. Lutov, V. A. Chaikin.** Axially symmetric problem of interaction between a soft orthotropic shell and a rigid body enveloped by the shell.
45. **M. Potapenko.** The selfsynchronization of two coaxed unbalanced vibroexciters with inner degree of freedom and the “asleep” gyroscope problem .
46. **L. Sargsyan.** Mathematical models of ferroelastic thin shells on the basis of asymmetrical theory of elasticity.
47. **M. A. Sevodin, N. B. Sevodina.** Some aspects of application of muller’s method.
48. **E. P. Kligman, V. P. Matveenکو, N. V. Sevodina.** Solution of some dynamic problems for inhomogeneous viscoelastic bodies in terms of stiffness and mass matrices formed within the ANSYS software packet.
49. **V. V. Shadrin, L. A. Komar, G. P. Bashin.** Investigation and mathematical modelling of dynamic properties of polyethylene.
50. **M. Yu. Gutkin, K. V. Kuzmin, A. G. Sheinerman.** Misfit stresses and mechanisms of their relaxation in a nanowire containing a cylindrical inclusion of finite length.
51. **V. V. Smagin, M. A. Borich, A. P. Tankeyev.** Dynamic coherent structures of nonlinear acoustic waves.
52. **A. Yu. Smolin.** Description of rotation in the movable cellular automaton method.
53. **Yu. P. Stefanov.** Modeling of deformation and fracture of consolidated and porosity rocks under rigid stamp indentation.
54. **O. Stolyarov.** Analysis of buckling behaviour the 3D spacer fabrics under axial compression.
55. **E. Sviyazheninov.** Flow over complex shape body.
56. **A. Vujadin.** Assessing the remaining strength to finite element method of corrosion damages of the steel spherical storage tank for liquid ammonia in the chemical industry.
57. **I. N. Wasserman.** Longitudinal oscillation of the sucker-rod string interacting with gas-oil mixture.
58. **E. P. Kligman, M. A. Yurlov, N. A. Yurlova.** An inverse problem for identifying mechanical characteristics of composite materials.
59. **A. A. Zelenina, L. M. Zubov.** Bending and twisting of nonlinear elastic bodies with continuously distributed dislocations