

REPORT

on scientific Journal of the Institute of Mathematics and Mechanics of Azerbaijan NAS – Transactions, issue Mechanics (series of physical-technical & mathematical sciences) for the 2017

During the reporting period, the first issue of the new Journal - Transactions of Azerbaijan National Academy of Sciences (issue Mechanics) (series of physical-technical and mathematical Sciences) was formed and printed.

Journal's website was created at www.transmech.imm.az (email - transactions@imm.az). Scientific articles submitted to the Journal posted on the web at <http://transmech.imm.az/inpress/>. The printed version of the Transactions (issue Mechanics) published in December 2018, the next issue of the AMEA Transactions - (39 (7), 2018) will be issued in late of 2019.

In the 7th issue of the journal, Vol. 38, 2018 the following research papers was posted:

1. Academician Azad Mirzajanzade – 90
2. Dilgem S. Ganiyev **Free vibrations of retaining walls consisting of orthotropic cylindrical shells**
3. Fazile I. Jafarova **Electro-mechanical energies of the PZT/Elastic/PZT sandwich circular plate with penny-shaped interface cracks under action of the normal opening forces on the cracks' edges**
4. Garib I. Jalalov, Khasay A. Feyzullayev and Mubariz S. Khalilov **Simulation of gas condensate deposits development**
5. Natalya V. Kurbatova, Evgenii N. Portnov and Yuriy A. Ustinov **On the problems of tension, twisting and bending of ropes**
6. Mahir A. Mehdiyev **3D non-axisymmetric dynamic interface shear stress field in the elastic system consisting of the hollow cylinder and surrounding elastic medium**
7. Yashar T. Mehraliyev, Yusif M. Sevdimaliyev and Khalid B. Mamedov **On the solvability of the inverse boundary value problem for the equation of transverse vibrations of an elastic beam**
8. Magomed F. Mekhtiyev, Laura F. Fatullayeva and Nina I. Fomina **Effect of wave generation at critical time combined viscous-elastic ring**
9. Magomed F. Mekhtiyev, Yulius D. Kaplunov, Fuad S. Guseynov and Ayten G. Muradova **Building of homogeneous solutions for a transversally isotropic spherical shell**
10. Subhan N. Namazov and Vurgun F. Gahramanov **Theoretical principles of kinetics of diffusion saturation of iron-based composite materials**
11. Ismayil R. Sadigov **Variational methods of stability analysis of elastic, thin, multilayered, inhomogeneous, anisotropic plates of variables thickness under temperature and strength load**
12. Yusif M. Sevdimaliyev, Sahib A. Piriev and Esmira M. Mustafayeva **Scattering of the internally reinforced damaged pipe in a cylindrical form with active material.**