

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 2016

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/volumes/35/>. The printed version of the Transactions (issue Mechanics) published in December 2016, the next issue of the AMEA Transactions - (37 (7), 2017) will be released in late of 2017.

In the 7th issue of the journal, Vol. 36, 2016 the following research papers was posted:

1. Honored scientists
2. Natik K. Akhmedov and Natavan S. Gasanova Studying the problem of torsion of a spherical shell with variable shear module
3. **Polad F. Gahramanov and Gunay G. Bagirova** On approximate solution of viscous fluid motion equations
4. **Hatam H. Guliyev** Analysis of the physical parameters of the Earth's inner core within the mechanics of the deformable body
5. **Fahreddin K. Isayev and Orhan Y. Efendiyev** Stability of inhomogeneous nano-micro beams of Euler-Bernoulli based on nonlocal elasticity theory of Eringen K.A
6. **Meftun I. Ismailov and Sahib A. Aliyev** On some particularities of the influence of the fluid viscosity on the frequency response of a viscoelastic plate loaded with this fluid
7. **Fazile I. Jafarova and Orujali A. Rzayev** Stability loss of the PZT/Metal/PZT sandwich circular plate-disc under "open-circuit" condition
8. **Vagif M. Mirsalimov** Solution of contact problem for a plane weakened by a variable width slot
9. **Geylani M. Panahov, Eldar M. Abbasov, Parviz T. Museibli and Nigar N. Abbasova** Wall effects under non-Newtonian fluid flow in a circular pipe
10. **Isamyil R. Sadigov** Physical nonlinear elastic deformations of smooth ring
11. **Arkadiy N. Soloviev and Mikhail Y. Shevtsov** Determination of the damping coefficients of the orthotropic solid based on the combination finite element method and genetic algorithm