

# Report of the department “Theory of elasticity and plasticity” of IMM ANAS for 2019

## On scientific activity.

7 research associates including 1 doct.ph.m.s.prof., 3 ass.prof., 3 PhD., 1 junior researcher, senior laboratory assistant, translator and engineer work at this department.

In the department 7 scientific works on “**Bending stability and vibrations of nonhomogeneous and anisotropic structural elements are carried out**” on the report period, 3 papers(1 abroad), 1 thesis published. 3 papers were accepted for publication, and 4 paper was prepared for publication.

**Work A.** Oscillations of an anisotropic inhomogeneous rectangular plate located on an inhomogeneous base. (V. J. Gadjiev).

**Work B.** A study of elastic and plastic thin-walled shells. (Kh. I. Musayev).

**Work C.** Free vibrations for an anisotropic rectangular plate with a periodically bent structure, considering the resistance of the external environment.

(T.U. Zeynalova).

**Work D.** Oscillations of an anisotropic shell located on a substantially elastic base. (G. R. Mirzayeva).

**Work E.** Asymptotic analysis of a transversely isotropic spherical shell.

(F. S. Huseynov).

**Work F.** Stability of elastically plastic rectangular plate positioned on the basis of an inhomogeneous. (E. H. Shahbandayev).

**Work G.** Bending of an anisotropic rectangular plate lying on a two-constant Pasternak foundation. (A.H.Movsumova)

### **On scientific - organizational activity.**

Two times in a month (on Friday), at 12.00 the department contents scientific seminars. The talks of the department employees, doctoral students and sometimes of collaborators of other scientific of other scientific institutions are discussed.

Employees of the department V.D. Hajiyev, G.R. Mirzoyeva and Kh.I. Musaev held scientific and practical seminars for fourth-year students of the Mechanics and Mathematics Department of BSU.

If necessary, the seminars discuss the results of dissertations by employees of other scientific institutions.

Department employee V.D. Hajiev worked as an expert on the scientific council of the Higher Attestation Commission.

Employees of the department continue scientific and pedagogical activities.

G.R. Mirzoyeva works as a teacher (0.5 staff) of the department "Information Technologies in Public Administration" of the Academy of Public Administration under the President of the Republic of Azerbaijan. G.R. Mirzoeva from January 25, 2019 to February 3, 2019, she participated as a teacher in Intensive Training in Coding and received a certificate.

There is one dissertation in the department.

Attendance is satisfactory.

Head of department

doct.phys.math.sci.prof. V.J.Gadjiev.