

CONTENT

MATHEMATICS

Aliev R.A. <i>On boundary properties of analytical functions</i>	3
Aliev S.A., Yeleyko Ya.I., Zhernovyi Yu.V. <i>Ergodic distributions for certain modifications of the $M/M/n/m$ queueing system</i>	11
Amanov R.A. <i>On some non-uniform weighted embedding theorems</i>	19
Bilalov B.T., Eminov M.S. <i>On equivalence of completeness of two systems of functions</i>	29
Delshad Gharehgheshlaghi A.Y., Aliyev N.A. <i>A problem for a composite type equation of third order with general linear boundary conditions</i>	35
Dzhabrailov A.J., Kadimova L.Sh. <i>On inequalities between "weight" norms of partial derivatives of differentiable functions</i>	47
Gasimov E.A. <i>Solvability of some boundary value problems for Laplace equation</i>	63
Guliyev A.F., Hasanova S.H. <i>The unique strong solvability of the mixed boundary value problem for linear non-divergent parabolic equations of the second order in the space Sobolev</i>	69
Guliyev Ya.Y., Hasanov J.J. <i>Necessary and sufficient conditions for the boundedness of B-Riesz potential in modified B-Morrey spaces</i>	89
Mamedov O.M., Ali Molkhasi <i>On congruence schemes and compatible relations of algebras</i>	101
Muradov T.R. <i>On basicity of perturbed system of exponents in Lebesgue spaces with variable summability index</i>	107

Musayev A.M. <i>On asymptotic estimation of approximation of functions by general Mellin type singular integrals</i>	113
Najafova S.M. <i>Theorems on continuation of functions belonging to W - spaces type general spaces</i>	121
Nasibov Sh.M., Huseynova R.M. <i>On n-dimensional analogue of Hirschman's inequality</i>	129
Sabzaliev M.M. <i>On a boundary value problem for singularly perturbed quasilinear elliptic equation in curvilinear trapezoid</i>	135
Sadiqov M.A., Acikgoz M. <i>The properties of the n-conjugate functions</i>	147
Shahbazov A.I., Seyidov D.A. <i>Compact weighted composition operators on function spaces on locally connected sets</i>	159
Shykhamedov A.M. <i>On basicity of double and unitary systems of functions</i>	165
Shukurov A.Sh. <i>Necessary condition of basicity of a system of powers in Lebesgue spaces</i>	173

MECHANICS

Aliyev G.G. <i>Longitudinal vibrations of polymerized bar with regard to lateral motion dynamics</i>	179
Najafov M.A. <i>On a conical shell flutter at internal streamline by supersonic gas flow</i>	187
Taran M.M. <i>Stability of a filled ridge cylindrical shell under the action of time decreasing load</i>	193
Zarkesh J. <i>Interaction of prefracture strips in friction lining</i>	199

APPLIED PROBLEMS OF MATHEMATICS AND MECHANICS

Ahmedov T.M.

*Diffraction by an impedance strip: a new based on physical optics approach...*205

Mammadov T.Sh.

Symmetric model of motion of particles on a circle 213

Mekhtiyev M.F., Aliyev N.A., Fatemi M.R.

*On fredholm property of a boundary value problem for a first order
equation with general boundary conditions* 221

Pour Ofoghi F.Sh., Sharifov Ya.A.

*An optimal control problem for Goursat-Darboux systems with boundary
and distributed controls under nonlocal conditions* 227