## CONTENT

## MATHEMATICS

Aliev B.A.  Solvability of boundary value problems for a second order elliptic differential-operator equation with a spectral parameter in both the equation and boundary conditions
Aslanova N.M.  Asymptotic distribution of eigenvalues and regularized trace of boundary value problem for Bessel's operator equation with eigenvalue dependent boundary condition
Bilalov B.T., Shykhammedov A.M.  On basis properties of systems of functions in Banach spaces
Dadashova I.B. $Dzjadyk$ -tamrazov type estimations on the curves in a complex plane in the metric $L_p$
Guseynov T.S. Basis properties of unitary systems with degenerating coefficients in $L_1$ and $C$ 59
Huseynov A.H.  Existence and uniqueness results for a nonlinear boundary value problem with impulse
Khudaverdiyev K.I., Heydarova M.N.  On existence in large for almost everywhere solution of one-dimensional mixed problem for fourth order semilinear biparabolic equation
Kuliyev H.F., Jabbarova K.Sh.  Application of the l-problem of moments to the solution of optimal control problem for string vibrations equation
Mamedova V.A.  On removable sets of solutions of the second order elliptico-parabolic equations of the second order
Mamedov F.V.  Nonexistence of global solutions for some evolution inequalities of second order
Mirheydarli M.M.  On solvability of Neumann problem for semi-linear elliptic equations with discontinuous coefficients

Mirzoev S.S., Mamedov A.M.  On an initial boundary-value problem for operator-differential equations of third order in Hilbert space
Rasulov R.A.  Behavior of solutions of nonlinear evolution equations in unbounded domains
Sadikhov M.N.  On existence in large for almost everywhere solution of one-dimensional mixed problem for a class of Korteweg-de Vries-Burgers type nonlinear equations. 149
Salimova G.A.  Inverse boundary value problem for a fourth order partial differential equation with not self-adjoint boundary conditions
Seidova K.I.  Solvability of the second boundary value problem for time dependent  Schrödinger equation with square summable potential
Shefiyeva G.Kh.  On determination of an unknown coefficient at higher derivative in a second order parabolic equation
MECHANICS
Aliyev A.B., Ramazanov T.K. On influence of wall layer of sediment on the motion of suspension in pipe $\dots 187$
Gasanova L.A.  Thermo-elastic failure of damaged spherical Vessel
Kubishev I.N.  Bearing capacity of a composite annular plate with different fixing conditions situated the action of non uniformly distributed load
Latifov F.S., Aliyev F.F.  Free axisymmetric vibrations of flowing fluid ribbed cylindrical shell contacting with elastic medium
Shahbandaev E.G.  On partial closing of cracks in heat-releasing medium weakened by a periodic system of circular holes

Proceedings of IMM of NAS of Azerbaijan	263
APPLIED PROBLEMS OF MATHEMATICS AND ME	CHANICS
Jabrailov Sh.I.  Optimality condition for control of systems with three-point boundary conditions	225
Mahmudov N.M.  An optimal control problem for Schrodinger's equation with real-valued coefficient in the non-linear part of the equation	231
Salmanov V.J.  Pontryagin's maximum principle in an optimal control problem for ordinary differential equations with special quality test	
Tagiyev R.K.  On optimal control for quasi-linear elliptic equations	247