

CONTENT

MATHEMATICS

Aliyev S.A., Hashimova T.E. <i>Asymptotic behavior of local probabilities of one-sided nonlinear boundary crossing by a random walk</i>	3
Balayev M.K. <i>On unbounded polynomial operator and differential pencils</i>	11
Delshad Gharehgheshlaghi A.Y. <i>A problem for a composite type equation of third order with general linear boundary conditions</i>	23
Eminov M.S. <i>On some classical theorems of functional analysis</i>	31
Gadjiev A.D., Ghorbanalizadeh A.M. <i>On the α-statistical approximation by sequences of k-positive linear operators</i>	41
Garayev T.Z. <i>On the basisity of exponents in L_p</i>	53
Guliyeva A.M. <i>On an inverse boundary value problem for a third order pseudoparabolic equation with not self-adjoint boundary conditions</i>	57
Huseynov R.V., Amanov R.A. <i>Harnack type inequality and on interior smoothness of solutions for a class of non-uniformly degenerate second order elliptic equations in non-divergent form</i>	71
Ismailova A.I. <i>Necessary and sufficient Riesz condition of the system of root functions of Dirac operator</i>	85
Ismailov Z.I. <i>First order multipotient boundary value problems</i>	93
Kasumova G.I. <i>On a spectrum of Sturm-Liouville operator equation on a finite segment</i>	101

Khalilov E.H. <i>On an approximate solution of a boundary integral equation of mixed problem for Helmholtz equation</i>	105
Khalilov V.S. <i>Limit theorem for multi type branching processes with migration</i>	111
Khudaverdiyev K.I., Farhadova G.M. <i>On global existence for generalized solution of one-dimensional non-self-adjoint mixed problem for a class of fourth order semilinear pseudo-parabolic equations</i>	119
Mamedova V.A. <i>On removable sets of solutions of a mixed boundary-value problem for the second order nondivergent quasielliptic equations</i>	135
Rahimov F.H., Abdurakhmanov V.A., Azizov F.Dj. <i>Integral limit theorems for the first passage time of parabolas by Markov chains</i>	139
Sabzaliev M.M. <i>On asymptotics of solution of boundary value problem for a quasilinear elliptic equation on infinite strip</i>	145
Salmanov V.J. <i>Existence of optimal control problem solution for linear concentrated systems with special quality test.....</i>	157
Shykhamedov A.M. <i>On equivalence of basis properties of binary and unitary systems in the space of continuous function</i>	161
 MECHANICS	
Afandiyeva A.O. <i>On slippage effect influence on pressure recovery curves with regard to uninstantaneous liquid inflow failure</i>	169
Allahverdiev R.A. <i>Interaction of cracks with bonding between the lips at the end zones in bending of a strip (beam)</i>	177
Gasanova P.V. <i>Fatigue failure of a central annular hole plate under pulsating tension type cyclic loading</i>	183

Guliyev M.S. <i>Axisymmetric wave propagation in the twisted circular cylinder embedded in a compressible elastic medium</i>	187
---	-----

Jafarova I.M. <i>Free vibrations of laterally stiffened medium-filled cylindrical shells under axial compression and with regard to friction</i>	195
---	-----

APPLIED PROBLEMS OF MATHEMATICS AND MECHANICS

Ismailov R.Sh., Gahramanov P.F. <i>The mathematical description of movement of biphase environments evaporation</i>	201
--	-----

Kengerli T.S., Jalalov M.J. <i>Universal scenarios of passage to chaotic behavior in oil production processes..</i>	213
--	-----

Teymurov R.A. <i>On existence and uniqueness of solution of moving sources optimal control problem</i>	219
---	-----