

AUTHOR INDEX TO VOLUME 25

	No.	Page
AL'BREKHT, E.G., On the optimal stabilization of linear systems	5	1254
ALEKSANDROV, A.Ia., Solution of axisymmetric problems for the theory of elasticity with the aid of relations between axisymmetric and plane states of stress	5	1361
AMBARTSUMIAN, S.A. and GNUNI, V.Ts., On the dynamic stability of nonlinearly elastic three-layered plates	4	1102
ANNIN, B.D., Asymptotic expansion of an exponential function of fractional order	4	1192
ARKHIPOV, V.N., Plane-parallel flow of a compressible fluid in the wake behind a body	1	189
BABICH, V.M., Fundamental solutions of the dynamical equations of elasticity for nonhomogeneous media	1	49
BARANOV, V.B. and LIUBIMOV, G.A., On the form of the generalized Ohm's law in a completely ionized gas	3	694
BARBASHIN, E.A., On the construction of periodic motions	2	406
BARBASHIN, E.A., Programmed control of systems with random parameters	5	1228
BARENBLATT, G.I. and CHEREPANOV, G.P., On the equilibrium and propagation of cracks in an anisotropic medium	1	61
BARENBLATT, G.I. and CHEREPANOV, G.P., On the finiteness of stresses at the [leading] edge of an arbitrary crack	4	1112
BARENBLATT, G.I. and CHEREPANOV, G.P., On brittle cracks under longitudinal shear	6	1654
BLEKHMAN, I.I. and DZHANELIDZE, G.Iu., On the stability of vibrationally linearized nonlinear systems	1	255

	No.	Page
BOGOIAVLENSKII, A.A., Cyclic displacements for the generalized area integral	4	1152
BOLOTIN, V.V., The natural oscillations of a rectangular elastic parallelepiped	1	220
BONDAR', V.D., On tensorial characteristics of finite deformations of a continuous medium	3	753
BOSTANDZHIAN, S.A., Homogeneous helical motion in a cone	1	193
BOSTANDZHIAN, S.A., Homogeneous spiral motion between two coaxial cones	3	840
BRATUKHIN, Iu.K., On the evaluation of the critical Reynolds number for the flow of a fluid between two rotating spherical surfaces	5	1286
BULAKH, B.M., Some questions concerning the theory of conical flow	2	339
BULAKH, B.M., On some properties of supersonic gas flow	3	708
BYKOVTSSEV, G.I., On the velocity field formed by a flat die pressing on a plastic half-space	3	816
CHEKMAREV, I.B., The steady flow of a weakly ionized gas between parallel plates assuming anisotropic conductivity	3	701
CHEKMAREV, I.B. and UFLIAND, Ia.S., On some possibilities of accelerating electrically conducting fluids with the use of crossed magnetic fields	5	1267
CHEN' CHZHEN-CHEN, The effect of dynamic fluid pressure on a dam during earthquakes	1	211
CHEN' CHZHEN-CHEN, On the hydrodynamic pressure on a dam caused by its aperiodic or impulsive vibrations and vertical vibrations of the earth surface	4	1060
CHEREPANOV, G.P. See Barenblatt, G.I.	1	61
CHEREPANOV, G.P. See Barenblatt, G.I.	4	1112
CHEREPANOV, G.P. See Barenblatt, G.I.	6	1654
CHERNOUS' KO, F.L. See Grigorian, S.S.	1	119

	No.	Page
CHERNOUS' KO, F.L., The reflection of weak converging shock waves in a gas of variable density	2	311
CHERNOUS' KO, F.L. See Grigorian, S.S.	5	1300
CHERNYI, G.G., Integral methods for the calculation of gas flows with strong shock waves	1	138
CHZHAN SY-IN, On the theory of optimum control	3	617
CHZHAN SY-IN, On sufficient conditions for an optimum	5	1420
DAREVSKII, V.M., On basic relations in the theory of thin shells	3	768
DEMIDOVICH, B.P., Forced oscillations of a quasilinear system in the presence of a rapidly changing external force	4	1044
DOBROVOL' SKAIA, Z.N., Penetration of a wedge into compressible half-space	3	718
DOBROVOL' SKII, V.L., Plane plastic strain problems for anisotropic materials	1	247
DROFA, V.N., On the permanent axes of motion for a heavy gyrostat near an immovable point	5	1411
DZHANELIDZE, G.Iu. See Blekhman, I.I.	1	255
EGLIT, M.E., On the determination of the elastic potential from experiments	4	1109
FAL KOVICH, S.V., Plane transonic gas flows with singularities on the sonic line	2	324
FEDORCHENKO, A.M., On a dynamical method for increasing stability of a rapidly rotating symmetrical gyroscope	5	1406
FEIGIN, M.I., On the evaluation of optimal parameters of a dry-friction damper	4	1196
FEODOS' EV, V.I. See Gabriel' iants, A.G.	6	1629
FILIMONOV, Iu.M., On the stability of solutions of third-order differential equations	4	1170
FILIPPOV, I.G., On the motion of a vortex below the surface of a liquid	2	357

	No.	Page
FUFAEV, N.A., Chaplygin's equations and the theorem of the additional multiplier in the case of quasi-coordinates	3	577
GABRIL' IANTS, A.G. and FEODOS'EV, V.I., Axially-symmetric forms of equilibrium of an elastic spherical shell under uniformly distributed pressure	6	1629
GAISARIAN, S.S., A proof of Galerkin's method for equations with a retarding argument	3	873
GALKIN, V.S. and GLADKOV, A.A., On the lift force at hypersonic speeds	6	1697
GERSHUNI, G.Z. and ZHUKOVITSKII, E.M., The stability of equilibrium of fluid within a horizontal cylinder heated from below	6	1551
GLADKOV, A.A. See Galkin, V.S.	6	1697
GNOENSKII, L.S., On the accumulation of disturbances in linear systems	2	467
GNOENSKII, L.S., On a method of optimization of servo-systems	5	1424
GNUNI, V.Ts. See Ambartsumian, S.A.	4	1102
GOGOSOV, V.V., Resolution of an arbitrary discontinuity in magnetohydrodynamics	1	148
GOGOSOV, V.V., Interaction of magnetohydrodynamic waves with contact and vortex discontinuities	2	277
GOGOSOV, V.V., Interactions of magnetohydrodynamic waves	3	678
GOL' DENVEIZER, A.L., Asymptotic properties of eigenvalues in problems of the theory of thin elastic shells	4	1077
GORBATENKO, S.A., On the stability of a nonlinear system of automatic control	6	1508
GRIGOR'EV, A.S., Equilibrium of a membrane shell of revolution at large deformations	6	1618
GRIGOR'EV, O.D., On the plane deformation of a rigid-plastic body	5	1352
GRIGORIAN, S.S. and CHERNOUS'KO, F.L., One-dimensional quasi-static motions of soil	1	119

	No.	Page
GRIGORIAN, S.S. and CHERNOUS' KO, F.L., The piston problem for the equations of soil dynamics	5	1300
GRINBERG, G.A., On steady flow of a conducting fluid in a rectangular tube with two nonconducting walls and two conducting ones parallel to an external magnetic field	6	1536
GUBAR', N.A., Investigation of a piecewise-linear dynamical system with three parameters	6	1519
GUREVICH, M.I., Influence of capillary forces upon the coefficient of contraction of a jet	6	1586
IL' IUSHIN, A.A., On the postulate of plasticity	3	746
IVLEV, D.D., On the determination of the surface of a bulging material caused by the penetration of a thin blade in a plastic half-space	2	487
IVLEV, D.D., Mathematical description of the behavior of an elastic isotropic solid by means of a piecewise-linear potential	5	1340
IVLEV, D.D. and MARTYNOVA, T.N., On the calculation of compressibility in the theory of ideally plastic media	6	1676
KACHANOV, L.M., On the solution of problems of non-stationary creep	1	234
KACHANOV, L.M., On the kinetics of crack growth	3	739
KARLIKOV, V.P. and KOROBEINIKOV, V.P., Disturbances in an electromagnetic field caused by shock waves under the influence of a sudden increase in conductivity	3	819
KHACHATURIAN, T.T., The fundamental equations of the general theory of thin elastic shells in terms of stresses	3	791
KHOMENIUK, V.V. See Stepanov, K.N.	4	1128
KHRUSTALEV, A.F., On the steady-state problem of thermal conduction in a solid cylinder	4	1142
KIRGETOV, V.I., On the theory of an absolutely elastic impact on material systems	1	1
KIRGETOV, V.I., Analytical method of mechanics in the theory of a perfectly elastic impact of material systems	3	608

	No.	Page
KIRILLOVA, F.M., Contribution to the problem on the analytical construction of regulators	3	644
KLIMUSCHEV, A.I. and KRASOVSKII, N.N., Uniform asymptotic stability of systems of differential equations with a small parameter in the derivative terms	4	1011
KOCHINA, N.N., Thermodynamic functions for some particular forms of the expression for internal energy of an ideal compressible medium	1	207
KOCHINA, N.N., On periodic solutions of Burgers' equation	6	1597
KOGAN, M.N., On magnetohydrodynamic flows of mixed type	1	180
KOGAN, M.N., On three-dimensional magnetohydrodynamic flows	2	554
KOROBENNIKOV, V.P. See Karlikov, V.P.	3	819
KOROTKINA, M.R., Possible definitions of the concepts of stress and strain in a system of interacting particles	6	1680
KOSACHEVSKII, L.Ia., On the reflection of sound waves from stratified two-component media	6	1608
KOSHLIAKOV, V.N., On the reduction of the equations of motion of a gyrohorizoncompass	5	1205
KOSTANDIAN, B.A., The influence of oscillations of the free surface of a liquid on the stability of rotational motion of a spinning top containing the liquid	4	963
KRASIL'NIKOV, V.N., On the solution of some boundary-contact problems of linear hydrodynamics	4	1134
KRASOVSKII, N.N. and LIDSKII, E.A., Analytical design of controllers in stochastic systems with velocity-limited controlling action	3	627
KRASOVSKII, N.N. See Klimushev, A.I.	4	1011
KRASOVSKII, N.N., On mean-square optimum stabilization at damped random perturbations	5	1212
KREIN, M.G. and LIUBARSKII, G.Ia., On the theory of transmission bands of periodic waveguides	1	29
KREMENTULO, V.V., Application of the second method of Liapunov in the investigation of the steady motion of a gyroscope when elastic properties of the rotor axis are taken into account	3	859

	No.	Page
KULIKOVSKII, A.G. and LIUBIMOV, G.A., On the structure of an inclined magnetohydrodynamic shock wave	1	171
KUPTSOV, N.P., On a sufficient condition for the stability of the trivial solution of a system of two linear differential equations	4	1181
KURDIUMOVA, N.V., On the solution of plane irrotational hydrodynamic problems for doubly-connected regions	1	202
LEITMANN, G., On some optimum rocket trajectories	6	1475
LEKHNITSKII, S.G., On the torsion of an anisotropic rod by forces distributed over its lateral surface	1	75
LEKHNITSKII, S.G., Axisymmetric deformation and torsion of a transversely isotropic cylinder under the action of polynomial load	6	1643
LIDSKII, E.A. See Krasovskii, N.N.	3	627
LIDSKII, E.A., On the stabilization of stochastic systems	5	1237
LIUBARSKII, G.Ia. See Krein, M.G.	1	29
LIUBARSKII, G.Ia., On the structure of shock waves	6	1559
LIUBIMOV, G.A. See Kulikovskii, A.G.	1	171
LIUBIMOV, G.A., The structure of magnetohydrodynamic shock waves in a gas with anisotropic conductivity	2	266
LIUBIMOV, G.A. See Baranov, V.B.	3	694
LIUBIMOV, G.A., On the form of Ohm's law in magneto-hydrodynamics	4	913
LIVANOV, K.K., Axisymmetric vibrations of simply supported cylindrical shells	4	1095
LUNIEV, V.V., The law of similitude for viscous hypersonic flows around blunted slender bodies	6	1572
LUR'E, A.I. On his sixtieth birthday	4	887
MAKEEV, N.N., Remarks on the paper by Ia.I. Sekerzh-Zenkovich entitled "On the theory of the Borda mouth-piece for a gas"	2	569
MARKHASHOV, L.M., On the critical cases of stability of stationary motions according to Liapunov	2	390

	No.	Page
MARKUZON, I.A., On splitting of a brittle body by a wedge of finite length	2	521
MARTYNOVA, T.N. See Ivlev, D.D.	6	1676
MEDUKHOVSKII, I.B., On the aerodynamics of fin-stabilized axisymmetric bodies at angle of attack	3	831
MERKIN, D.R., On the stability of motion of a gyroframe	6	1482
MESHALKIN, L.D. and SINAI, Ia.G., Investigation of the stability of a stationary solution of a system of equations for the plane movement of an incompressible viscous liquid	6	1700
MUSKHELISHVILI, L.C., For the seventieth anniversary of	2	265
PASHCHENKO, N.T., Certain questions of aerothermodynamics, connected with the model of free-molecular flow	6	1686
PEREL'MAN, T.L., On asymptotic expansions of solutions of a class of integral equations	6	1709
PERSIDSKII, S.K., On the second method of Liapunov	1	20
PIRVERDIAN, A.M., One method of evaluating approximate solutions of the equation of nonstationary filtration of liquids and gases	4	1120
POPOV, G.Ia., On a method of solution of the axisymmetric contact problem of the theory of elasticity	1	105
POPOV, G.Ia., Bending of a semi-infinite plate resting on a linearly deformable foundation	2	502
POZHARITSKII, G.K., Extension of the principle of Gauss to systems with dry (Coulomb) friction	3	586
PROSKURIAKOV, A.P., Periodic solutions of quasilinear autonomous systems with one degree of freedom in the form of infinite series with fractional powers of the parameter	5	1433
PUCHENKIN, G.N., On a problem of the theory of nonlinear oscillations	5	1449
PY'TEV, Iu.P., Regions of stability of an equation with periodic coefficients	2	432

	No.	Page
RAKHMATULLINA, L.F., On the problem of stability of the solution of the nonlinear heat-conduction equation	3	880
REGIRER, S.A., Some magnetohydrodynamic problems in longitudinal flow over a porous cylindrical surface	4	930
RIAZANTSEV, Iu.S., Calculation of density variation which occurs during phase transformation in Stefann's problem	6	1706
ROITENBERG, Ia.N., On some indirect methods of obtaining information on the position of a controlled system in the phase space	3	654
ROITENBERG, Ia.N., Theory of systems with alternation	4	1026
ROSTOVTSEV, N.A., An integral equation encountered in the problem of a rigid foundation bearing on non-homogeneous soil	1	238
ROZENVASSER, E.N., On forced oscillations and stability of quasiharmonic systems	2	418
ROZIN, L.A., Method of resolution in the theory of shells	5	1376
RUMIANTSEV, V.V., On the stability of motion of gyrostats	1	9
RUMIANTSEV, V.V., On the stability of motion of certain types of gyrostats	4	1158
RUMIANTSEV, V.V., On systems with friction	6	1463
RYZHOV, O.S. and SHMYGLEVSKII, Iu.D., On a certain property of supersonic gas flows	3	673
SAMOILOVICH, G.S., The flow about an aerodynamic cascade of thin oscillating sections	4	940
SAMOILOVICH, G.S., Nonstationary rotational flow over a cascade of thin oscillating aerofoils	5	1276
SAVVIN, A.B., On second-order differential equations whose solutions are bounded by a given quantity	3	866
SHESTERIKOV, S.A., Buckling in the presence of creep	4	1116
SHIMANOV, S.N.; On stability of quasiharmonic systems with retardation	6	1494
SHMYGLEVSKII, Iu.D. See Ryzhov, O.S.	3	673

	No.	Page
SIDOROV, A.F., On shock waves in the flow of a polytropic gas having straight-line characteristics	2	558
SINAI, Ia.G. See Meshalkin, L.D.	6	1700
SKURIDIN, G.A., An approximate theory for the head wave generated by a cylindrical inclusion in a homogeneous elastic medium	3	726
SOKOLOVSKII, V.V., On the drawing of a plastic strip	2	493
SOKOLOVSKII, V.V., Expansion of a circular opening in a rigid-plastic plate	3	809
SOKOLOVSKII, V.V., Some remarks on the linearization of the equations of plasticity	5	1393
SOROKIN, V.S., Nonlinear phenomena in closed flows near critical Reynolds numbers	2	366
STANESCU, C. See Visarion, V.	1	93
STEPANOV, K.N. and KHOMENIUK, V.V., Remarks on the energy principle in magnetohydrodynamics	4	1128
SVESHNIKOV, A.A., The investigation of the behavior of linear dynamical systems under the action of nonlinear functions of random processes	3	661
SVEKLO, V.A., On the solution of dynamic problems in the plane theory of elasticity for anisotropic media	5	1324
SYCHEV, V.V., On hypersonic flows of viscous heat-conducting gases	4	898
TABAROVSKII, A.M., On the motion and stability of a gyroscope on gimbals in the Newtonian central force field	2	382
TABUEVA, V.A., On circular motions of the Froude pendulum	3	854
TABUEVA, V.A., Conditions for the existence of a periodic solution of a third-order differential equation	5	1445
TEREGULOV, I.G., The circular elastic plate under an axy-symmetrical transverse load	5	1386
TER-MKRTICH' IAN, L.N., Some problems in the theory of elasticity of nonhomogeneous elastic media	6	1667

	No.	Page
TIRSKII, G.A., Conditions on the surface of a strong discontinuity in multicomponent mixtures	2	291
TOKAR', E.N., Certain properties of a gyrocompass with a seventeen-hour period	3	846
TROITSKII, V.A., The Mayer-Bolza problem of the calculus of variations and the theory of optimum systems	4	994
TSEITLIN, A.I., On the effect of shear deformation and rotary inertia in vibrations of beams of elastic foundation	2	531
TSOI, P.I., Diffraction of (short) sound waves at an obstacle (cylinder, sphere, cone and plane)	2	536
TSOI, P.I., Diffraction of plane sound waves (long) at a toroid	4	1146
UFLIAND, Ia.S., On torsional vibrations of half-space	1	228
UFLIAND, Ia.S., Rotation of a conducting fluid in an annular clearance under the influence of a transverse magnetic field	3	824
UFLIAND, Ia.S. See Chekmarev, I.B.	5	1267
VALEEV, K.G., On Hill's method in the theory of linear differential equations with periodic coefficients. Determination of the characteristic exponents	2	460
VALEEV, K.G., On the stability of the solutions of a system of two first-order linear differential equations with periodic coefficients for the resonance case	4	1187
VATAZHIN, A.B., The solution of several boundary problems in magnetohydrodynamics	5	1453
VISARION, V. and STANESCU, C., An investigation of the quasi-invariants of the static-geometric analogy for thin elastic shells	1	93
VOIT, S.S., Diffraction from a surface of waves formed on the surface of a liquid by a periodically acting source	2	545
VOROVICH, I.I., Some representations in general form of solutions to the equations of the theory of shallow shells	3	801

	No.	Page
ZHBANOV, Iu.K., A horizontal gyrocompass on vibrating elastic foundation	5	1397
ZHUKOVITSKII, E.M. See Gershuni, G.Z.	6	1551
ZIMIN, E.P., The flow of a viscous electrically conducting gas in a transverse magnetic field in the presence of heat transfer	2	566
ZUBOV, V.I., On the behavior of integral curves in the neighborhood of a periodic motion	2	445