## **AUTHOR INDEX TO VOLUME 24**

	No.	Page
ABRAMIAN, B.L. and BABLOIAN, A.A., Torsion of circular rods having longitudinal notches or teeth and a central cavity	2	487
ABRAMIAN, B.L., On the torsion of a solid of revolution under axisymmetrical loading	6	1590
AFANAS'EV, E.F., On the reflection of sound waves from a plane with a movable part in the form of a cylindrical piston	4	1034
AIZERMAN, M.A. and GANTMAKHER, F.R., On the stability of the equilibrium positions for discontinuous systems	2	406
AKATNOV, N.I., The application of Von Mises' variables to the problem of laminar boundary layer propagation along a wall	1	208
ALEKSANDROV, V.M. and VOROVICH, I.I., The action of a die on an elastic layer of finite thickness	2	462
AMBARTSUMIAN, S.A., On the theory of bending of aniso- tropic plates and shallow shells	2	500
ARKHANGELSKII, Iu.A., On the stability of motion of a heavy solid about a fixed point in a certain special	_	
case	2	422
BABLOIAN, A.A. See Abramian, B.L.	2	487
BALABUKH, L.I. and SHAPOVALOV, L.A., On variational principles of thermoelasticity	4	1044
BARBASHIN, E.A., On a problem of the theory of dynamic programming	6	1525
BARENBLATT, G.I., On finiteness conditions in the mechanics of continuous media. Static problems of the theory of elasticity	2	453

	No.	Page
BARENBLATT, G.I. and CHEREPANOV, G.P., On the wedging of brittle bodies	4	993
BARENBLATT, G.I., ZHELTOV, Iu.P. and KOCHINA, I.N., Basic concepts in the theory of seepage of homogeneous liquids in fissured rocks [strata]	5	1286
BELEN'KII, M.Ia., Some axially symmetric problems of elasticity theory	3	868
BELONOSOV, S.M., The application of integral equations to the problem of torsion of shafts of variable diameter	6	1583
BELOTSERKOVSKII, O.M., On the calculation of flow past axisymmetric bodies with detached shock waves using an electronic computing machine	3	745
BEZHANOV, K.A., On the theory of diffraction of shock waves	4	1070
BLEKHMAN, I.I. and LAVROV, B.P., On an integral criterion for stability of motion	5	1416
BLEKHMAN, I.I., Justification of the integral criterion of stability of motion in problems on autosynchronization of vibrators	6	1665
BOLOTIN, V.V., Equations for the nonstationary tempera- ture fields in thin shells in the presence of sources of heat	2	515
BOLOTIN, V.V., The edge effect in the oscillations of elastic shells	5	1257
BONDER, Iu., On the tensor method in the theory of non- steady spatial flows of the "double wave" type	6	1636
BUBLIK, B.N. and MERKULOV, V.I., On the dynamic stability of thin elastic shells filled with a liquid	5	1423
CHEKMAREV, I.B., One-dimensional flow of a compressible gas in a pipe in the presence of a transverse magnetic field	2	553
CHEKMAREV, I.B., On the quasi-one-dimensional steady flow of a compressible conducting gas in a pipe of constant cross-section in the presence of transverse magnetic		
and electric fields	3	801

	No.	Page
CHEREPANOV, G.P. See Barenblatt, G.I.	4	993
CHERKASOV, V.S., On the problem of the excitation of standing waves by a wave generator in a channel of finite length	3	810
CHERKESOV, L.V., The development of waves generated by the vibrations of a strip	6	1648
CHERNOUS'KO, F.L., A converging shock wave in a gas of variable density	5	1334
CHERNYI, G.G., Application of integral relationships in problems of propagation of strong shock waves	1	159
CHERNYKH, K.F., Saint-Venant's problem for thin-walled tubes with a circular axis	3	619
CHETAEV, N.G., Biographical sketch of	1	1
CHETAEV, N.G., On certain questions related to the problem of the stability of unsteady motion	1	5
CHETAEV, N.G., On the stability of rough systems	1	23
CHETAEV, N.G., The problem of Klein	1	27
CHETAEV, N.G., Note on classical Hamiltonian theory	1	40
CHETAEV, N.G., On certain constraints with friction	1	43
CHETAEV, N.G., Survey of the scientific works of	1	238
CHETAEV, N.G., List of works of	1	281
CHUSHKIN, P.I., Supersonic flows around blunted bodies of simple shape	5	1397
DEM'IANOV, Iu.A. and SHMANENKOV, V.N., Investigation of reverse flows in the region of separation of the turbulent boundary layer	2	340
DEMIANOV, Iu.A., The boundary layer on a plate the surface temperature of which varies in time	4	965
DIKII, L.A., On the stability of plane parallel flows of an inhomogeneous fluid	2	357
DOBROVOL'SKII, V.L., On the application of complex variables in plane plastic deformations	5	1447

	No.	Page
DOBROVOL'SKII, V.L., The problem of plane strain of a perfectly plastic body in terms of complex variables	2	525
DOMBROVSKII, G.A., Supersonic efflux of a gas from a nozzle into a region of low pressure	5	1324
DUDUKALENKO, V.V., On the indentation of a rigid stamp into an anisotropic plastic medium	5	1459
DZHANELIDZE, G.Iu. and LUR'E, A.I., On the application of integral and variational principles of mechanics to problems of vibrations	1	103
EGLIT, M.E., On the tensorial characteristics of finite deformations	5	1432
ESTRIN, M.I., On the application of self-similar solutions to dynamic problems in a plastic medium	6	1732
FARZETDINOV, M.M., Steady natural convection in a circular horizontal pipe with a harmonically variable cross-section	3	833
FILIPPOV, I.G., Solution of the problem of motion of a vortex under the surface of a fluid for Froude numbers near unity	3	698
FILIPPOV, I.G., Finite solitary wave in the field of a vortex near the surface of a heavy fluid	4	1064
FRANKL, F.I., Approximate calculation of the potential flow of a fluid jet flowing in a thin layer over the	2	546
surface of a solid body  FUFAEV, N.A. See Neimark, Iu.I.	6	1541
GALIN, L.A., KARPYCHEVA, Z.F. and SHKIRICH, A.R., Lenticular spreading of underground waters	3	826
GALIN, L.A., On the scattering of radiation in a medium with changing optical properties	6	1576
GANTMAKHER, F.R. See Aizerman, M.A.	2	406
GERONIMUS, Ia.L., On certain properties of motion in the presence of gyroscopic forces	6	1549
GOLITSYN, G.S., On the structure of turbulence in the small-scale range	6	1705

	No.	Page
GOL'DSHTIK, M.A., A paradoxical solution of the Navier-Stokes equations	4	913
GONOR, A.L., Determination of the shape of a body of minimum drag at hypersonic speed	6	1628
GORBUNOV, L.M., On isochronous suspension of clock pendula	5	1247
GORELOV, Iu.A., On two classes of plane extremal motions of a rocket in a vacuum	2	434
GRIGORIAN, S.S., On some special problems of thermo- dynamics of continuous media	4	971
GRIGORIAN, S.S., On basic concepts in soil dynamics	6	1604
GUBENKO, V.S. and MOSSAKOVSKII, V.I., Pressure of an axially symmetric circular die on an elastic half-space	2	477
IAGODKIN, V.I., On the theory of stability of flow of viscous fluids in channels	5	1304
IL'IUSHIN, A.A., Problems of the general theory of plasticity	3	587
IL'IUSHIN, A.A., On the increments of plastic deformations and the yield surface	4	987
IVANILOV, Iu.P., On the stability of plane parallel flow of a viscous fluid over an inclined bottom	2	549
IVLEV, D.D., On the properties of the relations of the law of anisotropic hardening of plastic material	1	191
IVLEV, D.D., On the theory of plane strain for a strain-hardening plastic material	4	1052
IVLEV, D.D., On extremum properties of plasticity conditions	5	1439
KARPYCHEVA, Z.F. See Galin, L.A.	3	826
KATS, I.Ia. and KRASOVSKII, N.N., On the stability of systems with random parameters	5	1225
KHARASAKHAL, V.Kh., Almost-periodic solutions of non- linear systems of differential equations	3	838

	No.	Page
KHASKIND, M.D., Thermal waves in the ground under insulation of coolers	2	377
KHMELEVSKII, I.L., On Hamilton's principle for non-holonomic systems	5	1177
KIRGETOV, V.I., On the relaxation of material systems	1	48
KIRGETOV, V.I., On the purely elastic impact of material systems	5	1183
KIRILLOVA, F.M., A limiting process in the solution of an optimal control problem	2	398
KISLER, V.M., On explosions above surfaces of liquids	3	724
KLIMOV, D.M., On the motion of an astatic gyroscope in a cardan suspension with dry friction	4	1164
KOCHINA, N.N. and MELNIKOVA, N.S., On the motion of a piston in an ideal gas	2	307
KOCHINA, N.N., On the properties of the motion of certain ideal gases following an explosion at a point	3	735
KOCHINA, N.N. See Barenblatt, G.I.	5	1286
KOGAN, M.N., Plane flows of an ideal gas with infinite electrical conductivity, in a magnetic field not parallel to the flow velocity	1	129
KOGAN, M.N., On the uniqueness of quasihyperbolic magnetohydrodynamic flows	2	530
KOGAN, M.N., On the propagation of disturbances in plane magnetohydrodynamic flows	3	773
KOLOVSKII, M.Z., On conditions for the existence of periodic solutions of systems of differential equations with discontinuous right-hand sides containing		
a small parameter	4	1105
KOMAROVSKII, L.V., On spatial gas flows with degenerate hodographs	3	717
KOROBEINIKOV, V.P. and RIAZANOV, E.V., Some solutions of the equations of one-dimensional magnetohydrodynamics		
and their application to problems of shock-wave propagation	1	144

	No.	Page
KOSEVICH, A.M. and TANATAROV, L.V., Plastic deformation and irreversible changes in a solid body in the presence of local melting. Point source of heat	5	1273
KOSHLIAKOV, V.N., On the asymptotic solution of the equations of motion of a gyroscopic compass	5	1197
KOSTANDIAN, B.A., On the stability of solutions of the nonlinear equation of heat conduction	6	1686
KRASOVSKII, N.N., On optimum control in the presence of random disturbances	1	82
KRASOVSKII, N.N., Approximate computation of optimal control by the direct method	2	390
KRASOVSKII, N.N. See Kats, I.Ia.	5	1225
KREMENTULO, V.V., Stability of a gyroscope having a vertical axis of the outer ring with dry friction in the gimbal axes taken into account	3	843
KRIUCHKOV, N.B., Investigation of a peculiarity of non- linear equations of control systems in the case of multiple roots by application of the theory of matrices	4	1125
KUDRIAVTSEV, A.L., On the possibility of the application of electronic digital computers to one of the approximate methods for obtaining conformal maps	2	567
KUDRIAVTSEVA, N.A., Horizontal impact of a floating ellipse on an incompressible fluid	2	370
KULIKOV, N.K., Approximate solution of a second-order linear differential equation with variable coefficients	4	1135
KURATOV, P.S. and ROZENBLIUM, V.I., On the integration of the equations of unsteady creep of solid bodies	1	195
LADIKOV, Iu.P., Some problems in the dynamics of magneto-vortex configurations	5	1349
LAVRENT'EV, Mikhail Alekseevich, On his sixtieth birth- day	6	1475
LAVROV, B.P. See Blekhman, I.I.	5	1416

	No.	Page
LEKHNITSKII, S.G., Torsion of an anisotropic curved bar	3	633
LISUNOV, A.D., On the theory of unsteady supersonic gas flow about a wing of finite span	1	230
LOITSIANTSKY, L.H., Heat transfer in turbulent motion	4	950
LUNEV, V.V., The automodelling (similarity) case of hypersonic flow past an axisymmetric body of a viscous heat-conducting gas	3	804
LUNTS, Ia.L., On the instability of the axis of the gyroscope figure	4	1150
LUR'E, A.I. See Dzhanelidze, G.Iu.	1	103
LUR'EV, I.M., On a solution to the equation of magnetogasdynamics	1	233
MAGERRAMOV, N.Kh. and MIRZADZHANZADE, A.Kh., Filtration of gas-condensate mixtures in a porous medium	6	1656
MAMALADZE, Iu.G. and MATINIAN, S.G., The hydrodynamics of an oscillating disk in a rotating fluid	3	691
MATINIAN, S.G. See Mamaladze, Iu.G.	3	691
MATROSOV, V.M., On the stability of gyroscopic stabilizers	5	1214
MELNIKOVA, N.S. See Kochina, N.N.	2	307
MEN'SHIKOV, V.M., On approximate method of analysis of circular cylindrical shells	4	1022
MERKULOV, V.I. See Bublik, B.N.	5	1423
MEZHIROV, I.I., On the turbulent boundary layer of an imperfect gas	1	120
MIKHAILOVA, M.P., Motion of a spherical piston with constant velocity in an inhomogeneous medium	5	1384
MINKOV, I.M., On some functional equations	5	1463
MIRZADZHANZADE, A.Kh. See Magerramov, N.Kh.	6	1656
MOISEEV, N.N., An existence and non-uniqueness theorem of vortex waves of the periodic type	4	1058
MOSSAKOVSKII, V.I. See Gubenko, V.S.	2	477

	No.	Page
MOVCHAN, A.A., Stability of processes with respect to two metrics	6	1506
NEIMARK, Iu.I. and FUFAEV, N.A., On the transpositional relations in analytical mechanics of nonholonomic systems	6	1541
NOVOSELOV, V.S., On the motion of nonlinear gyroscopic systems	6	1566
OGURTSOV, K.I., Stress waves in an elastic plate	3	640
OVCHINNIKOV, O.N., Longitudinal flow past a cylinder immersed in an inhomogeneous flow in the presence of steady boundary-layer suction	2	541
PAL'MOV, V.A., The contact problem of a plate on an elastic foundation	3	609
PANRATOV, S.A., On a numerical method for determining the roots of characteristic equations	5	1469
PAVLOV, K.B., On the theory of motions of the Prandtl-Meyer type	1	227
PAVLOV, K.B. and TARASOV, Iu.A., On the stability of flow of a viscous conducting fluid between parallel planes in a perpendicular magnetic field	4	1079
PIRVERDIAN, A.M., On self-similar motions in the theory of the nonstationary filtration of a gas in a porous medium	3	823
PIVERDIAN, A.M., The construction of some approximate non-similarity solutions of the problem of one-dimensional unsteady filtration in a porous medium	6	1718
PLOTNIKOVA, G.V., On the construction of periodic solutions of a nonautonomous quasilinear system with two degrees of freedom	5	1408
POLIANSKII, O.Iu., On the attenuation of shock waves in a moving medium with varying density and temperature	5	1370
POPLAVSKII, R.P., On an improvement of the convergence of the Fourier method	2	562
POZHARITSKII, G.K., On the equations of motion for systems with nonideal constraints	3	669

	No.	Page
PRITULO, M.F., Flow past wings with sideslip	5	1316
PROSKURIAKOV, A.P., On a property of periodic solutions of quasilinear autonomous systems with several degrees of freedom	4	1098
PROSKURIAKOV, A.P., Periodic oscillations of quasilinear autonomous systems with two degrees of freedom	6	1671
PUPYREV, V.A. and UFLIAND, Ia.S., Certain contact problems for an elastic layer	4	1015
PYKHTEEV, G.N., Cavitation flow of an ideal incompressible fluid in a slot	1	213
PYKHTEEV, G.N., On the evaluation of certain integrals with regular kernels of the Cauchy type	6	1690
REGIRER, S.A., On an exact solution of the equations of magnetohydrodynamics	2	556
REGIRER, S.A., On the flow of an electrically conducting fluid in tubes of arbitrary cross-section in the presence of a magnetic field	3	790
RIAZANOV, E.V. See Korobeinikov, V.P.	1	144
RODIONOV, A.M., Quasilinear systems of neutral type with a deviating argument	6	1681
ROITENBERG, Ia.N., On the placing of a gyroscopic compass into a meridian during the acceleration of the rotors of the gyroscopes	1	113
ROITENBERG, Ia.N., On the theory of impulsive follow-up systems	2	443
ROITENBERG, Ia.N., On the motion of gyroscopic devices under the influence of random forces	3	677
ROITENBERG, Ia.N., On the theory of direct gyroscopic stabilizers	4	1156
ROSTOVTSEV, N.A., On the problem of diffraction of sound from a circular aperture	5	1404
ROZENBLIUM, V.I. See Kuratov, P.S.	1	195
ROZENBLIUM, V.I., Plasticity conditions for thin shells	2	520

	No.	Page
ROZENVASSER, E.N., Remark on a method of constructing Liapunov functions	4	1119
RUMIANTSEV, B.N., On waves generated on the surface of an incompressible fluid by a shock wave	2	344
RUMIANTSEV, B.N., On the unsteady motions of a heavy fluid at a sloping beach	3	816
RUMIANTSEV, V.V., A theorem on the stability of motion	1	59
RUMIANTSEV, V.V., On the stability of rotation of a top with a cavity filled with a viscous liquid	4	903
RYZHOV, Q.S., On the transition from subsonic to super- sonic velocities in Laval nozzles	2	534
SAFRONCHIK, A.I., Unsteady flow of visco-plastic material in a circular tube	1	200
SALTANOV, N.V., On the conservation of vorticity in the magnetohydrodynamics of plasma with many components	6	1703
SARKISIAN, M.S., The theory of plane strain of plastically anisotropic bodies	6	1725
SEDOV, L.I., Different definitions of the rate of change of a tensor	3	579
SHAPOVALOV, L.A. See Balabukh, L.I.	4	1044
SHESTERIKOV, S.A., On the construction of a theory for an ideally plastic body	3	604
SHIDLOVSKII, V.P., Laminar boundary layer on an infinite disk rotating in a gas	1	221
SHIMANOV, S.N., On the instability of the motion of systems with retardation	1	70
SHIMANOV, S.N., On the stability in the critical case of zero root for systems with time lag	3	653
SHKIRICH, A.R. See Galin, L.A.	3	826
SHMANENKOV, V.N. See Dem'ianov, Iu.A.	2	340
SHMYGLEVSKII, Iu.D., On a class of bodies of revolution with minimum wave resistance	5	1390

	No.	Page
SKIMEL, V.N., On the stability of the stationary motion of the gyroscopic frame	4	1144
SMIRNOV, V,A., On the discharge of a plane hypersonic jet into a medium at rest	5	1377
SOKOLOVSKII, V.V., The drawing of a thin tube through a conical die	5	1453
STARZHINSKII, V.M., Stability of the trivial solution of a system of two linear differential equations with periodic coefficients	3	861
SVIRSKII, I.V., Utilization of similarity considerations for the improvement of the convergence of a process of successive approximation in shell analysis	1	177
SYCHEV, V.V., Three-dimensional hypersonic gas flow past slender bodies at high angles of attack	2	296
SYCHEV, V.V., On the theory of hypersonic gas flow with a power-law shock wave	3	756
SYCHEV, V.V., On the motion of a viscous electrically- conducting liquid under the action of a rotating disk in the presence of a magnetic field	5	1360
TABAROVSKII, A.M., On the stability of motion of a heavy gyroscope on gimbals	3	856
TABAROVSKII, A.M., On the stability of motion of Foucault gyroscopes with two degrees of freedom	5	1206
TANATAROV, L.V. See Kosevich, A.M.	5	1273
TARASOV, Iu.A. See Pavlov, K.B.	4	1079
TER-KRIKOROV, A.M., The existence of periodic waves which degenerate into a solitary wave	4	930
TOMILOV, E.D., On a certain form of exact particular solutions of a plane vortex free gas flow	3	783
UFLIAND, Ia.S. See Pupyrev, V.A.	4	1015
VALEEV, K.G., On the solution and characteristic exponents of solutions of some systems of linear differential equations with periodic coefficients	4	877

	No.	Page
VALEEV, K.G., On Hill's method in the theory of linear differential equations with periodic coefficients	6	1493
VATAZHIN, A.B., On the flow in a diffusor in the presence of a magnetic field	3	765
VATAZHIN, A.B., On the injection of an electrically- conducting liquid or gas into a boundary layer in the presence of a magnetic field	5	1365
VOROVICH, I.I. See Aleksandrov, V.M.	2	462
VUICHICH, V.A., Some integrals of the equations of motion of a dynamically variable point	4	1094
ZABABAKHIN, E.I., The collapse of bubbles in a viscous liquid	6	1714
ZAIDEL, P.M., Shock wave from a slightly curved piston	2	316
ZAV'IALOV, Iu.S., An approximate method of solving the problem of plane vortex gas flow	2	328
ZHBANOV, Iu.K., Investigation of free oscillations in an autonomous system of coordinates for a moving		
object	6	1558
ZHELTOV, Iu.P. See Barenblatt, G.I.	5	1286
ZHILIN, Iu.L., Fundamental relations across a strong steady shock wave giving rise to a discontinuity in conductivity	3	794
ZVOLINSKII, N.V., On the emission [radiation] of an elastic wave from a spherical explosion in the ground	1	166