

AUTHOR INDEX TO VOL. 31

	No.	Page
ABRAMIAN, B.L. and ARUTIUNIAN, N.Kh.: On some contact problems for composite half-spaces	6	1007
AINOLA, L.Ia.: A reciprocal theorem for dynamic problems of the theory of elasticity	1	190
AKSENTIAN, O.K.: Singularities of the stress-strain state of a plate in the neighborhood of an edge	1	193
ALEKSANDROV, V.M. and BELOKON', A.V.: Asymptotic solution of a class of integral equations and its application to contact problems for cylindrical elastic bodies	4	718
ALEKSANDROV, V.M.: On the approximate solution of some integral equations of the theory of elasticity and mathematical physics	6	1122
ALENITSYN, A.G.: Rayleigh waves in an inhomogeneous elastic half-space of a waveguide type	2	244
ALENITSYN, A.G.: Attenuation of waves propagating along a surface of a nonhomogeneous semispace with a waveguide	5	926
ALFUTOV, N.A. and BALABUKH, L.I.: On the possibility of solving plate stability problems without a preliminary determination of the initial state of stress	4	730
ANCHEV, A.: Permanent rotations of heavy gyrostat having a stationary point	1	48
ARUTIUNIAN, N.Kh.: Contact problems of creep theory	5	906
ARUTIUNIAN, N.Kh.: See ABRAMIAN, B.L.	6	1007
BABESHKO, V.A.: On an effective method of solution of certain integral equations of the theory of elasticity and mathematical physics	1	81
BABICH, V.M. and KRAVTSOVA, T.S.: Propagation of wave film type oscillations of quantized thickness	2	225
BABLOIAN, A.A.: Solution of some dual equations encountered in problems of the theory of elasticity	4	694
BABLABUKH, L.I.: See ALFUTOV, N.A.	4	730
BELEN'KII, I.M.: Applying the method of adjoint fields to nonlinear systems	2	403
BELENKII, I.M.: Cycles and quasi-indices of singular points of conservative systems	5	952

	No.	Page
BELETSKII, V.V.: Libration boundaries of a triaxial satellite in a gravitational field	6	1107
BELOKON, A.V.: see ALEKSANDROV, V.M.	4	718
BELOVA, N.A. and UFLIAND, Ia.S.: Dirichlet problem for a toroidal segment	1	59
BERDICHEVSKII, V.L.: On nonlinear tensor functions in the theory of relativity	1	203
BERDICHEVSKII, V.L. and SEDOV, L.I.: Dynamic theory of continuously distributed dislocations. Its relation to plasticity theory	6	989
BISNOVATYIKOGAN, G.S.: Flow of an ideal gas in a spherically symmetrical gravitational field with allowance for radiant heat conduction and radiant pressure	4	776
BOGOIAVLENSKII, A.A.: Properties of possible displacements for theorems on interaction of parts of a mechanical system	2	409
BONDARENKO, V.I. and FILIMONOV, Iu.M.: On the problem of stabilization of a nonlinear system	3	545
BORODIN, V.A.: On the computation of zeros of entire functions by means of series in problems of mechanics	3	513
BRATUKHIN, Iu.K. and MAURIN, L.N.: Thermocapillary convection in a fluid filling a half-space	3	605
BULAKH, B.M. and REYN, J.W.: Remarks on the problem of the delta-shaped wing	1	207
BULAKH, B.M.: On uniformly exact equations of the plane laminar boundary layer for a body with a sharp local change in the curvature of its profile	5	813
BULYGIN, A.N. and KUVSHINSKII, E.V.: Plane strain in the asymmetric theory of elasticity	3	569
CHERENKOV, G.P.: see GUPALO, Iu.P.	4	631
CHEREPANOV, G.P.: Crack propagation in continuous media	3	503
CHERNOUS'KO, F.L.: Rotational motions of a solid body with a cavity filled with fluid	3	451
CHERNYI, G.G.: see LEVIN, V.A.	3	431
CHERNYKH, E.M.: The self-similar problem of impact loading in a nonlinearly elastic material	5	884
CHERNYSHEV, G.N.: Bending of shells with positive curvature under a concentrated load	5	890
DEGTIAREV, V.G.: Stability of circular satellite orbits in the Earth's normal gravitational field with allowance for the dipole magnetic field	4	751

	No.	Page
DIESPEROV, V.N. and RYZHOV, O.S.: The second approximation in the asymptotic theory of sonic flow of a real gas past bodies of revolution	5	793
DIMENTBERG, M.F.: Subharmonic resonance in a system with a randomly varying natural frequency	4	761
DIMENTBERG, M.F.: Determining the statistical characteristics of a linear dynamic system from measurements of its motion	6	1092
EMETS, Iu.P.: The hodograph method in electrodynamics of continuous nonlinearly conducting media	6	1079
ENTOV, V.M.: On some two-dimensional problems of the theory of filtration with a limiting gradient	5	829
ERSHOV, L.V. and IVLEV, D.D.: On conditions of quasi-brittle fracture	3	563
FAL'KOVICH, S.V.: Spreading of a twisted stream in an infinite space flooded by the same fluid	2	304
Fam Guen.: On the motion equations of nonholonomic mechanical systems in Poincare-Chetaev variables	2	274
FEIGIN, M.I.: Dynamic theory of a controlled vibration damping model	1	166
FEIGIN, M.I.: Slippage in dynamic systems with collision interactions	3	559
FILIMONOV, Iu.M.: see BONDARENKO, V.I.	3	545
GERSHUNI, G.Z., ZHUKHOVITSKII, E.M. and SHVARTSBLAT, D.L.: On the stability of transverse flow of fluid between permeable boundaries	1	120
GERSHUNI, G.Z., ZHUKHOVITSKII, E.M. and RUDAKOV, R.N.: Heat perturbations spectrum of incompressible fluid flows	3	601
GERSHUNI, G.Z., ZHUKHOVITSKII, E.M. and RUDAKOV, R.N.: On the theory of Rayleigh's instability	5	821
GLIKMAN, L.G. and IAKUSHEV, E.M.: A case where the Hamilton-Jacobi equation is integrable	5	951
GOL'DSHTEIN, R.V.: On the surface waves in joined elastic materials and their relation to crack propagation along the junction	3	496
GONOR, A.L.: Supersonic flow past triangular wings with ribs on their surface	6	1050
GORODTSOV, V.A. and LEONOV, A.I.: On a linear instability of a plane parallel Couette flow of viscoelastic fluid	2	310
GORSHIN, S.I.: On the principle of reduction	6	1088
GRIKOLIUK, E.I. and TOLKACHEV, V.M.: On the analysis of line-loaded cylindrical shells	6	1147

	No.	Page
GRIGORIAN, S.S.: Some problems of the mathematical theory of deformation and fracture of hard rocks	4	665
GRINBERG, G.A.: A method of approach to problems of the theory of heat conduction, diffusion and the wave theory and other similar problems in presence of moving boundaries and its applications to other problems	2	215
GRINBERG, G.A. and KONTOROVICH, O.M.: The character of boundary layers and their overlapping in the magnetohydrodynamic flow of a conducting fluid in a channel of rectangular cross section	3	591
GUPALO, Iu.P. and CHERENKOV, G.P.: The two-dimensional problem of fluidization	4	631
GUSEIN-ZADE, M.I.: On some properties of the state of stress of a thin elastic layer	6	1137
IAKUSHEV, E.M.: see GLIKMAN, L.G.	5	951
IAKUSHIN, V.I.: The spectrum of small perturbations of motion of a fluid between rotating spherical surfaces	3	595
IONESCU, DAN.G.: On the general solution of equations of axisymmetrical motions of viscous fluids	3	614
IUDOVICH, V.I.: Stability of convection flows	2	294
IUDOVICH, V.I.: Free convection and bifurcation	1	103
IVLEV, D.D.: The dissipation function in the theory of plastic media with strain hardening	2	372
IVLEV, D.D.: see ERSHOV, L.V.	3	563
IVLEV, D.D.: On strain theories of plasticity for singular loading surfaces	5	895
KAGANOV, S.A.: On the stability of the steady-state solutions in the theory of thermal explosions	6	1083
KAMENKOV, G.V.: The stability of periodic motions	1	14
KAMENKOV, G.V.: A survey of scientific papers by	1	3
KAMENKOV, G.V.: (Biographical Note)	1	1
KARYMOV, A.A. and KHARITONOVA, T.V.: The effect of external perturbing moments on the dynamics of a uniaxial single-flywheel attitude control system of a spacecraft	6	1098
KATS, I.Ia.: On the stability in first approximation of systems with random lag	3	478
KAZHDAN, Ia.M.: Motion of gas behind an expanding detonation wave in space with a cut-out cone	5	928
KHARITONOVA, T.V.: see KARYMOV, A.A.	6	1098

	No.	Page
KHAS'MINSKII, R.Z.: Stability in the first approximation for stochastic systems	6	1025
KHENTOV, A.A.: Motion of a magnetized equatorial satellite about its center of mass in a circular orbit with interaction of the Earth's magnetic and gravitational fields	5	962
KHODZHAEV, K.Sh.: see NAGAEV, R.F.	4	655
KHUSNYTDINOVA, N.V.: The limiting moisture profile during infiltration into a homogeneous soil	4	783
KIL'CHEVSKII, N.A. and LEVCHUK, E.F.: On the determination of kinetic stress functions in elastodynamics problems	4	715
KIRGETOV, V.I.: The motion of controlled mechanical systems with prescribed constraints (servoconstraints)	3	465
KOLMANOVSKII, V.B.: Application of the Liapunov method to linear systems with lag	5	976
KONDRAT'EV, V.A.: Asymptotic of solution of the Navier-Stokes equation near the angular point of the boundary	1	125
KONTOROVICH, O.M.: see GRINBERG, G.A.	3	591
KOSTROV, B.V. and NIKITIN, L.V.: Longitudinal shear crack with an infinitely narrow plastic zone	2	357
KOUZOV, D.P.: Solution of Helmholtz's equation for a half-plane with boundary conditions containing high order derivatives	1	177
KOVAL'CHUK, V.E.: see VOROVICH, I.I.	5	869
KOVALENKO, A.D.: Development of the theory of hypergeometric functions in connection with problems on elastic equilibrium of plates and shells	4	705
KOVALEV, Iu.M.: see KOVALEV, A.M.	3	556
KOVALEV, A.M. and KOVALEV, Iu.M.: On the quadratic integral of the equations of motion of a body with a fixed point	3	556
KRAIKO, A.N.: The onset of shock waves in nonequilibrium flows	5	803
KRASOVSKII, N.N. and REPIN, Iu.M.: On the problem of attenuation of a linear system	3	490
KRAULIS, P.V.: see MOLOTKOV, L.A.	5	922
KRAVTSOVA, T.S.: see BABICH, V.M.	2	225
KRUZHKOVA, S.N.: On some problems with unknown boundaries for the heat conduction equation	6	1014
KULIKOVSKII, A.G. and SLOBODKINA, F.A.: Equilibrium of arbitrary steady flows at the transonic points	4	623
KUNIN, I.A.: Internal stresses in media with microstructure	5	898

	No.	Page
KUVSHINSKII, E.V.: see BULYGIN, A.N.	3	569
KUZ'MIN, Iu.N. and UFLIAND, Ia.S.: The contact problem of an elastic layer compressed by two punches	4	725
KUZ'MIN, G.A.: On the stability of motion in case of two small positive roots	1	150
KUZNETSOV, E.N.: Reciprocal relations for the differential operators of the theory of elasticity	3	524
KUZNETSOV, V.R.: On the probability distribution of the difference of velocities at two distinct points of a homogeneous, isotropic turbulent flow	6	1069
LISTROV, A.T.: Model of a viscous fluid with an antisymmetric stress tensor	1	115
LEONOV, A.I.: see GORODTSOV, V.A.	2	310
LEVCHUK, E.F.: see KILCHEVSKII, N.A.	4	715
LEVIN, V.A. and CHERNYI, G.G.: Asymptotic laws of behavior of detonation waves	3	431
LOMAKIN, V.A.: Moments formulation of some statistical problems in elasticity	4	687
LUR'E, K.A.: On a class of minimax problems with differential constraints	2	392
LUR'E, K.A.: On a method of derivation of Bellman equation	1	156
MALKINA, O.S.: see VOROVICH, I.I.	2	252
MAURIN, L.N.: see BRATUKHIN, I.K.	3	605
MIASNIKOV, V.P.: see MOSOLOV, P.P.	3	609
MIELE, ANGELO: Simplified approach to the problem of the optimum transversal contour	3	574
MIL'SHTEIN, G.N. and REPIN, Iu.M.: Stability in the mean square of a system of stochastic differential equations	3	533
MIRONOV, M.V.: Use of the Hamilton-Ostrogradskii principle in problems of the theory of nonlinear oscillations	6	1115
MISHCHISHIN, I.I.: see MOSSAKOVSKII, V.I.	5	877
MOLOTKOV, L.A.: On the vibrations of a homogeneous elastic half-space under the action of a source applied to a uniformly expanding circular region	2	232
MOLOTKOV, I.A. and OZEROV, D.K.: High frequency oscillations of a thin elastic layer of variable thickness	5	917
MOLOTKOV, L.A. and KRAUKLIS, P.V.: Oscillations of a cylindrical shell filled with a fluid and surrounded by an elastic medium	5	922

	No.	Page
MONIN, A.S.: Equations of turbulent motion	6	1057
MOSOLOV, P.P. and MIASNIKOV, V.P.: On qualitative singularities of the flow of a viscoplastic medium in pipes	3	609
MOSSAKOVSKII, V.I. and MISHCHISHIN, I.I.: Rolling of elastic bodies	5	877
MOVSESIAN, L.A.: On an invariant transformation of equations of one-dimensional unsteady motion of an ideal compressible fluid	1	137
NAGAEV, R.F.: Regular impulsive motions in a one-dimensional system	2	265
NAGAEV, R.F. and K.Sh. KHODZHAEV.: Synchronous motions in a system of objects with supporting constraints	4	655
NAZAROV, G.I. and PUCHKOV, A.A.: An analytic solution of a system of equations for the axisymmetrical flow of an incompressible fluid	5	941
NEMCHINOV, I.V.: Steady-state motion of radiation-heated vapors of a material in the presence of lateral spreading flow	2	320
NEPOMNIASHCHAIA, I.A. and SAVEL'EV, Iu.V.: Estimating the existence domain of a limiting cycle of a class of dynamic systems with a cylindrical phase space	4	758
NEVEL'SON, M.B.: Behavior of a linear system under small, random excitation of its parameters	3	552
NIGMATULIN, R.I.: Converging cylindrical and spherical detonation waves	1	171
NIKITIN, L.V.: see KOSTROV, B.V.	2	357
OLEINIK, O.A.: On the solution of Prandtl equations by the method of finite differences	1	92
OZEROV, D.K.: see MOLOTKOV, I.A.	5	917
PAL'MOV, V.A.: Propagation of vibrations in a nonlinear dissipative medium	4	763
PED', V.N. and SIMONENKO, I.B.: A steady-state problem of heat conduction in a layer with heat transfer conditions at the boundary	2	339
POLIAK, Iu.Ia.: Motion of two interacting charged particles in a homogeneous magnetic field	1	64
POPOV, E.B.: Dynamic coupled problem of thermoelasticity for a half-space taking account of the finiteness of the heat propagation velocity	2	349
POPOV, G.Ia.: Impression of a punch on a linearly-deforming foundation taking into account friction forces	2	360

	No.	Page
PROSKURIAKOV, A.P.: Period solutions of quasilinear non-self-contained systems with one degree of freedom in particular cases	2	395
PROSKURIAKOV, A.P.: Method of Poincaré in the theory of nonlinear oscillations. Cases of degeneration of the system	4	642
PUCHKOV, A.A.: see NAZAROV, G.I.	5	941
REGIRER, S.A.: Magneto hydrodynamic flows in pipes in the presence of a longitudinal current	2	384
REPIN, Iu.M.: see MIL'SHTEIN, G.N.	3	533
REPIN, Iu.M.: see KRASOVSKII, N.N.	3	490
REPNIKOV, M.N.: on the Kármán-Howarth equation	2	348
REYN, J.W.: see BULAKH, B.M.	1	207
RUBANOVSKII, V.N.: On the stability of motion of a body in a fluid	1	142
RUTKEVICH, I.M.: The electromagnetic field in a cavity undergoing compression	3	578
RUDAKOV, R.N.: Spectrum of perturbations and stability of convective motion between vertical planes	2	376
RUDAKOV, R.N.: see GERSHUNI, G.Z.	3	601
RUDAKOV, R.N.: see GERSHUNI, G.Z.	5	821
RUMIANTSEV, V.V.: On stability of motion of non-holonomic systems	2	282
RYKOV, V.A.: Relaxation of a gas described by Boltzmann kinetic equation	4	770
RYZHOV, O.S.: see DIESPEROV, V.N.	5	793
RYZHOV, O.S. and TEREŒT'EV, E.D.: On perturbations associated with the creation of lift acting on a body in a transonic stream of a dissipative gas	6	1037
SAMKO, S.G.: On the reduction of certain integral equations of the first kind in the theory of elasticity and hydrodynamics to equations of the second kind	2	368
SAMSONOV, V.A.: On the problem of a minimum of a functional in the investigation of the stability of motion of a body containing fluid	3	548
SAPUNKOV, Ia.G.: Convergent detonation waves under Chapman-Jouguet conditions in media with variable and constant initial densities	5	945
SAVCHENKO, A.Ia.: A generalization of the invariant relation of Hess	5	949

	No.	Page
SAVEL'EV, Ia.V.: see NEPOMNIASHCHAIA, I.A.	4	758
SEDOV, L.I.: see BERDICHEVSKII, V.L.	6	989
SEREBRIAKOVA, N.N.: On periodic solutions of dynamic, second order, nearly piecewise analytic systems	6	1112
SEVOST'IANOW, G.D.: Two-dimensional transonic gas flow in the presence of a normal shock wave	6	1031
SHKHINEK, K.N.: see ZVOLINSKII, N.V.	1	185
SHIFRIN, E.G.: On the extremal properties of entropy on a critical streamline	3	618
SHUARTSBLAT, D.L.: see GERSHUNI, G.Z.	1	120
SIMEONOV, S.V.: A method of solving systems of nonlinear equations of the potential type	3	527
SIMONENKO, I.B.: see PED', V.N.	2	339
SIRAZETDINOV, T.K.: On the theory of stability of processes with distributed parameters	1	36
SIVASHINSKII, G.I.: On existence and stability of solutions of steady-state theory of a thermal explosion	1	146
SLOBODKINA, F.A.: see KULIKOVSKII, A.G.	4	623
SLOBODKINA, F.A.: Stability of quasi-onedimensional magneto- hydrodynamic flows	3	442
SMOLITSKII, Kh.L.: Motion of a gyroscope in universal suspension of a uniformly rotating base	5	967
SMOL'NIKOV, V.A.: Generalization of the Euler case of a motion of a solid	4	749
SRUBSHCHIK, L.S.: Nonstiffness of spherical shells	4	737
STOIANOV, N.V.: On the stabilization of the steady-state motion of a nonlinear control system in the critical case of a double zero root	3	536
STOIANOV, N.V.: Stabilizing a nonlinear controlled system for steady-state motions in the critical case of a double zero root	5	981
SUBBOTIN, A.I.: On the problem of the game interception of motions	5	842
TERENT'EV, E.D.: see RYZHOV, O.S.	6	1037
TKHAN'BANG, NGUEN,: On the controllability of quasi- linear systems	1	160
TOLKACHEV, V.M.: see GRIGOLIUK, E.I.	6	1147
TROITSKII, V.A.: On the synthesis of optimal dampers	4	649
UFLIAND, Ia.S.: see BELOVA, A.	1	59

	No.	Page
UFLIAND, Ia.S.: see KUZ'MIN, Iu.N.	4	725
VYONG, NGO VAN.: Stability of motion in a critical case	3	541
VAN D'EP NGUEN,: Stability of Couette flow of the anomalous Grad fluid	6	1074
VATAZHIN, A.B.: Determining the parameters of subsonic flow in a channel beyond the zone of axial inhomogeneity of weak disturbing forces and heat sources	3	586
VATAZHIN, A.B.: Deformation of the velocity profile in an in- homogeneous magnetic field	1	72
VOROVICH, I.I. and MALKINA, O.S.: The state of stress in a thick plate	2	252
VOROVICH, I.I. and KOVAL'CHUK, V.E.: On the basic proper- ties of a system of homogeneous solutions	5	869
VOZLINSKII, V.I.: On the relations between the bifurcation of the equilibria of conservative systems and the stability distri- bution on the Equilibria curve	2	418
VOZLINSKII, V.I.: On the bifurcations of stationary motions of conservative systems with two cyclic co-ordinates	5	849
VYLEKZHANIN, V.D.: Lower and upper bounds for the torsional stiffness of a prismatic bar in steady creep	4	744
ZEN'KOVSKAIA, S.M.: The stability of a periodic solution of the Navier-Stokes equation	1	130
ZHUKHOVITSKII, E.M.: see GERSHUNI, G.Z.	1	120
ZHUKHOVITSKII, E.M.: see GERSHUNI, G.Z.	3	601
ZHUKHOVITSKII, E.M.: see GERSHUNI, G.Z.	5	821
ZHUKOVSKII, V.I.: Conditional stability in the critical case of several pairs of purely imaginary roots	3	483
ZVOLINSKII, N.V. and SHKHINEK, K.N.: Determination of the unloading wave in a particular case	1	185
ZVOLINSKII, N.V.: Reflection and refraction of a plane plastic wave in the presence of a boundary plane	5	856