AUTHOR/SUBJECT INDEX
to Vol. 40, 1976

	№	Page
AINOLA, L. Ia. : Variational principles of the theory of elasticity with varying initial and perturbed states	4	698
AKHUNDOV, M. B. : see AMENZADE, Iu. A.	4	706
AKSENTIAN, O. K. and SELEZNEVA, T. N. : Determination of frequencies of natural vibrations of circular plates	1	96
AKULENKO, L. D. : Resonance motions in an essentially nonlinear system containing stable elements	5	739
AKULENKO, L. D. : Approximate solution of nonlinear problems of optimal control of oscillatory processes using the method of canonical separation of motions	6	970
ALAD'EV, S. I. and ZAICHIK, L. I. : On the self-similar solution of Navier-Stokes equations with volume sources and sinks of mass	6	1062
ALEKSANDROV, V. V. and FROLOVA, A. A. : On proper transonic flows of radiative gas in channels with slightly varying parameters	5	785
ALGAZIN, S. D. and LENSKII, V. S. : Analytical investigation of the unloading wave	2	301
AL'BREKHT, E. G. and LOGINOV, M. I. : On the continuous dependence of a linear encounter game on a parameter	2	188
AMENZADE, Iu. A. and AKHUNDOV, M. B. : Boundary value problems for an elastic anisotropic half-plane weakened by a circular hole	4	706
ANAN'EV, B. I. , KURZHANSKII, A. B. and SHELEMENT'EV, G. S. : Minimax synthesis in problems of pulse guidance and motion correction	1	1
ANDREEV, L. V. , MOSSAKOVSKII, V. I. and OBODAN, N. I. : Maximum principle in problems of optimal design of reinforced shells for nonuniform loading	3	522
APYKHTIN, N. G. : Stability of permanent rotations of a symmetric solid	1	152
ARTEMOV, V. I. and SINKEVICH, O. A. : On the construction of plane stationary solutions of equations for nonequilibrium magnetized plasma	5	764
BABESHKO, V. A. : Vibration of two circular stamps in a layered medium	6	1045
BANICHUK, N. V. and MIRONOV, A. A. : Optimization problems for plates oscillating in an ideal fluid	3	474
BATUKHTIN, V. D. : On the relation between the solvability conditions of differential games	2	193
BAUTIN, S. P. : Approximate calculation method for one-dimensional gas flows induced by nonmonotonic motion of a piston	6	1001
BERDICHEVSKII, V. L. and KVASHNINA, S. S. : On equations describing the transverse vibrations of elastic bars	1	104

	№	Page
BERDICHEVSKII, V. L.: Stress functions and some a priori estimates in plate bending theory	3	481
BERKOVICH, V. N.: Matrix factorization method in mixed static problems of an elastic wedge	4	623
BERMAN, V. S. and RIAZANTSEV, Iu. S.: Igniting a homogeneous reacting medium by a heat source with finite heat content	6	1008
BOGOIAVLENSKII, O. I.: Dunamics of a gravitating ellipsoid	2	246
BOGOMOL'NYI, V. M. and STEPANOV, R. D.: Solution of a homogeneous boundary value problem for the sector of a toroidal shell segment	4	702
BORODACHEV, N. M.: On the nature of the contact stress singularities under an annular stamp	2	347
BORODACHEV, N. M.: Contact problem for a stamp with a rectangular base	3	505
BORODACHEV, N. M.: On a particular class of solutions of triple integral equations	4	605
BRUSIN, V. A.: Equations of Lur'e in Hilbert space and their solvability	5	900
BRUSIN, V. A.: Existence of a global Liapunov functional for certain classes of nonlinear distributed systems	6	1077
CHEBAKOV, M. I.: On further development of the 'method of large λ' in the theory of mixed problems	3	512
CHEKHOVSKAIA, T. N.,: see MARKEEV, A. P.	6	984
CHENTSOV, A. G.: An example of an irregular differential game	6	1053
CHEREPANOV, G. P.: Equilibrium of a slope with a tectonic crack	1	119
CHEREPANOV, G. P.: Plastic rupture lines at the tip of a crack	4	666
CHERNOUS'KO, F. L.,: A problem of evasion from many pursuers	1	11
CHERNYSHEV, G. N.: see POPOV, A. L.	4	652
CHIGAREV, A. V.: see PODBOLOTOV, B. N.	4	674
CHIGIR', S. A.: The game problem of the dolichobrachistochrone	6	950
CHIKRII, A. A. and CHIKRII, G. Ts.; On a differential-difference game of escape	6	943
CHIKRII, G. Ts.: see CHIKRII, A. A.	6	943
DEMIN, V. G. and FURASOV, V. D.: Stabilization of controlled systems with respect to a part of the variables	2	330
DERENDIAEV, N. V.: Laminar axisymmetric jet submerged in a rotating fluid	2	334
DERZHAVINA, A. I.: On the asymptotics of unsteady motion of gas subjected to a momentum	1	167
FEDOSENKO, Iu. S.: On the phase space structure and periodic motions of nonautonomous dynamic systems with collision interactions	4	570
FEDUNOV, B. E.: see GETMANOV, V. G.	3	404
FILIMONOVA, L. D.: see POTETIUNKO, E. N.	2	337
FISHBEIN, G. A.: see RIVKIND, V. Ia.	4	687
FISHER, I. Z.: see LESNIKOV, V. P.	4	685
FROLOVA, A. A.: see ALEKSANDROV, V. V.	5	785
FUFAEV, N. A.: see MUSARSKII, R. A.	5	759
FURASOV, V. D.: see DEMIN, V. G.	2	330
GALIN, L. A.: Contact problems of the theory of elasticity in the presence of wear	6	931

	№	Page
GERSHTEIN, M. S.: On a version of the nonlinear dynamical theory of twin multilayered shells	1	161
GETMANOV, V. G. and FEDUNOV, B. E.: Synthesis of time-optimal control of a third-order object with a phase constraint	3	404
GOGOSOV, V. V., KOROVIN, V. M., POLIANSKII, V. A. and SHAPOSHNIKOVA, G. A.: Isothermic shocks in electrohydrodynamics	3	413
GOLIKOVA, S. S. and MOSSAKOVSKII, V. I.: Pressure of a plane stamp of nearly circular cross section on an elastic half-space	6	1085
GOL'DENGERSHEL', E. I. G.: New Euler stability criterion for a viscoelastic rod	4	714
GONCHARENKO, V. M.: Generalized solutions of boundary value problems in the theory of elasticity for random loading	3	526
GORBUNOV, V. K.: Minimax impulsive correction of perturbations of a linear damped oscillator	2	230
GRABOVSKII, V. I. : see VATAZHIN, A. B.	1	55
GRIN', V. T., KRAIKO, A. N. and TILLIAEVA, N. I.: On the stability of flow of perfect gas in a channel with a closing compression shock and simultaneous reflection of acoustic and entropy waves from the outlet cross section	3	426
GUPALO, Iu. P., POLIANIN, A. D. and RIAZANTSEV, Iu. S.: Diffusion to a particle at large Péclet numbers in the case of arbitrary axisymmetric flow over a viscous fluid	5	893
GUSIATNIKOV, P. B.: On the problem of l-escape	1	20
GUSIATNIKOV, P. B.: On a particular criterion of optimal time	5	878
GUZ', A. N.: Inversion of relations of the theory of plastic flow for hardening bodies	4	661
HATVÁNYI, L.: On absence of asymptotic stability with respect to a part of the variables	2	223
Correction on the paper by L. HATVÁNYI: Entitled "On certain indications of stability with two Liapunov functions", PMM Vol. 39, № 1, 1975.	2	229
IBRAGIMOV, V. A.: State of stress and strain near the end of a growing crack in an elastic-plastic medium	2	311
IVANOV, G. M. and KOSMODAMIANSKII, A. S.: Elastic equilibrium of an anisotropic cylinder with longitudinal cavities subjected to axial loads	5	898
KAPUSTIANSKII, S. M.: On an exact solution of the problem of elastic wave diffraction by a wedge	1	172
KARPENKO, V. A.: Axisymmetric impression of two stamps into an elastic sphere	4	711
KAZEIKIN, S. N. and SHEVELEV, Iu. D.: Three-dimensional boundary layer in a partly ionized multi-component gas	3	445
KEIS, I. A.: On the existence conditions for the particular Jacobi integral	4	563
KHAZINA, G. G.: On the problem of interaction of resonances	5	912
KISELEV, O. M.: On the flow of a heavy fluid in a channel with a curvilinear floor	4	581

	№	Page
KOBRIN, A. I., MARTYNENKO, Iu. G. and NOVOZHILOV, I. V.: On the precession equations of gyroscopic systems	2	208
KOLMANOVSKII, V. B.: On probability control of certain systems	5	730
KOROVIN, V. M.: see GOGOSOV, V. V.	3	413
KOSMODAMIANSKII, A. S.: see IVANOV, G. M.	5	898
KOTEROV, V. N.: On nonlinear damping of plane acoustic pulses in a radiative gas	5	797
KOUZOV, D. P. and PACHIN, V. A.: Diffraction of acoustic waves in a plane semi-infinite waveguide with elastic walls	1	89
KOUZOV, D. P. and LUK'IANOV, V. D.: On the energy flux vector for bending vibrations of a plate	6	1073
KOZLOV, V. V.: The principle of least action and periodic solutions in problems of classical mechanics	3	363
KOZLOV, V. V.: On a problem of Poincaré	2	326
KRAIKO, A. N. and SHIRONOSOV, V. A.: Investigation of flow stability in a channel with a closing shock at transonic flow velocity	4	533
KRAIKO, A. N.: see GRIN', V. T.	3	426
KRASOVSKII, N. N.: On control under incomplete information	2	179
KUNITSYN, A. L.: Normal form and stability of periodic systems with internal resonance	3	392
KURSHIN, L. M. and ONOPRIENKO, P. N.: Determination of the shapes of doubly-connected bar sections of maximum torsional stiffness	6	1020
KURZHANSKII, A. B.: see ANAN'EV, B. I.	1	1
KUTSER, M. E.: see VEKSLER, N. D.	3	464
KVASHNINA, S. S.: see BERDICHEVSKII, V. L.	1	104
LENSKII, V. S.: see ALGAZIN, S. D.	2	301
LEONOV, G. A.: The second Liapunov method in the theory of phase synchronization	2	215
LESNIKOV, V. P. and FISHER, I. Z.: Green's functions for small perturbations of a plane incompressible Couette flow	4	685
LITVINOV, V. G.: Some inverse problems for flexible plates	4	631
LOGINOV, M. I.: see AL'BREKHT, E. G.	2	188
LUK'IANOV, V. D.: see KOUZOV, D. P.	6	1073
MAKEEV, N. N.: Small oscillations and spherical motion of a gyrostat in pseudo-Euclidean space	3	379
MAKSIMOV, V. A.: On the determination of the shape of bodies formed by solidification of the fluid phase of the stream	2	264
MAKSIMOV, V. A.: Linear differential encounter game with a functional target	2	201
MAKSIMOV, V. I.: An alternative in the differential-difference game of approach-evasion with a functional target	6	936
MARKEEV, A. P. and CHEKHOVSKAIA, T. N.: On the stability of a satellite cylindrical precession in an elliptic orbit	6	984
MARKEEV, B. M.: The two-point boundary value problem with a small parameter in the theory of a reactor with nonhomogeneous fluidized bed	4	592

	№	Page
MARKHASHOV, L. M.: Noncanonical invariants of Hamiltonian systems	1	31
MARKHASHOV, L. M.: Asymptotic stability and smooth equivalence of ordinary equations	6	991
MARTIROSIAN, A. N.: On the nonstationary motion of an elastic space with a crack	3	496
MARTYNENKO, Iu. G.: see KOBRIN, A. I.	2	208
METSAVEER, Ia. A. and PIKK, Iu. P.: The echo signal of a finite spherical pulse from a fluid filled spherical shell	4	599
MIL'SHTEIN, G. N. and RIASHKO, L. B.: Optimal stabilization of linear stochastic systems	6	979
MIRONOV, A. A.: see BANICHUK, N. V.	3	474
MIRSALIMOV, V. M.: Some elastic-plastic problems for a plane weakened by a periodic system of circular holes	1	133
MOLCHANOV, V. F.: The most simple type of flows with formation of tangential discontinuities	5	887
MORDUKHOVICH, B. Sh.: Maximum principle in the problem of time optimal response with nonsmooth constraints	6	960
MOSSAKOVSKII, V. I.: see ANDREEV, L. V.	3	522
MOSSAKOVSKII, V. I.: see GOLIKOVA, S. S.	6	1085
MUSARSKII, R. A. and FUFAEV, N. A.: Dynamics of a simplest model of a wheeled vehicle under random perturbations	5	759
NALETOVA, V. A. and SHAPOSHNIKOVA, G. A.: Disintegration of an arbitrary discontinuity in a perfectly conducting magnetizable incompressible medium	5	816
NEPOMNIASHCHII, A. A.: On stability of secondary flows of a viscous fluid in unbounded space	5	836
NI, A. L. and RYZHOV, O. S.: Nonlinear propagation of waves in media with an arbitrary number of chemical reactions	4	541
NIGUL, U. K.: Asymptotic determination of the formation process of nonlinear distortion of one-dimensional pulses in a layered medium	6	1034
NIKISHIN, V. S., PARIISKII, B. S. and SHAPIRO, G. S.: Consolidation of an elastic porous multilayer medium under the pressure of a circular press	5	859
NOVOZHILOV, I. V.: see KOBRIN, A. I.	2	208
NULLER, B. M.: On the deformation of an elastic wedge plate reinforced by a variable stiffness bar and a method of solving mixed problems	2	280
OBODAN, N. I.: see ANDREEV, L. V.	3	522
ONOPRIENKO, P. N.: see KURSHIN, L. M.	6	1020
OSMOLOVSKII, V. G. and RIVKIND, V. Ia.: Problems of steady and unsteady creep	1	140
OZIRANER, A. S.: Stability of unsteady motions in first approximation	3	385
PACHIN, V. A.: see KOUZOV, D. P.	1	89
PARIISKII, B. S.: see NIKISHIN, V. S.	5	859
PASHKOV, A. G.: On a sufficient condition for nonlinear position games of encounter	1	148

	№	Page
PEKUROVSKII, L. E.: Diffraction of a shock wave on a thin wedge moving at supersonic speed under the conditions of sporadic wave interaction	5	808
PEN'KOVSKII, L. I.: On the problem of desalinization of soil containing readily soluble salts	6	1065
PERLIN, P. I.: Application of the regular representation of singular integrals to the solution of the second fundamental problem of the theory of elasticity	2	342
PIKK, Iu. P.: see METSAVEER, Ia. A.	4	599
PINSKII, M. A.: Quasi-normal and normal oscillations in conservative systems	2	237
PLAKHINA, L. A. and USHAKOV, V. N.: Differential game of guidance for a system with slack and integral constraints	5	869
PODBOLOTOV, B. N., POLENOV, V. S. and CHIGAREV, A. V.: Dynamic deformation of quasi-isotropic composite media	4	674
POLENOV, V. S.: see PODBOLOTOV, B. N.	4	674
POLIANIN, A. D.: see GUPALO, Iu. P.	5	893
POLIANSKII, V. A.: see GOGOSOV, V. V.	3	413
PONOMARENKO, Iu. B.: On the principal resonance in mechanics of continuous media	2	256
POPOV, A. L. and CHERNYSHEV, G. N.: Plane short-wave oscillations in the vicinity of the convex boundary of an elastic body	4	652
POPOV, G. Ia.: Integral equations of contact problems for thin-walled elements	4	612
PORUCHIKOV, V. B.: Diffraction of a spherical elastic wave by a wedge	5	847
POTETIUNKO, E. N. and FILIMINOVA, L. D.: On the nature of attenuation of a free surface elevation caused by an initial perturbation	2	337
PROKHOROVA, N. L. and SOLOV'EV, Iu. I.: Axisymmetric problem for an elastic space with a spherical cut	4	640
PROTSENKO, V. S. and RVACHEV, V. L.: Plate in the form of an infinite strip on an elastic half-space	2	273
RAPPOPORT, R. M.: On the construction of general solutions of the elasticity theory equations for transversely isotropic inhomogeneous bodies	5	909
RESHETOV, V. M. and USHAKOV, V. N.: Stabilization of a linear differential game with integral constraints on the players' control resources	3	398
RIASHKO, L. B.: see MIL'SHTEIN, G. N.	6	979
RIAZANTSEV, Iu. S.: see GUPALO, Iu. P.	5	893
RIAZANTSEV, Iu. S.: see BERMAN, V. S.	6	1008
RIVKIND, V. Ia.: see OSMOLOVSKII, V. G.	1	140
RIVKIND, V. Ia., RYSKIN, G. M. and FISHBEIN, G. A.: Flow around a spherical drop at intermediate Reynolds numbers	4	687
ROGACHEVA, N. N.: Application of the method of partitioning the state of stress to the analysis of thermoelastic shells	6	1027
ROMANOV, Ia. P.: On equivalence of the equations of motion of nonholonomic systems	1	157
RUBANOVSKII, V. N.: Stability of stationary rotation of a heavy solid body with two elastic rods	1	46

	№	Page
RUDERMAN, Ia. L.: On the boundary layer on a partly mobile surface	3	435
RUMIANTSEV, V. V.: On the motion of controllable mechanical systems	5	719
RVACHEV, V. L.: see PROTSENKO, V. S.	2	273
RYSKIN, G. M.: see RIVKIND, V. Ia.	4	687
RYZHOV, O. S.: see NI, A. L.	4	541
SAAKIAN, L. S.: On the optimal stabilization of the positions of a gyrostat-satellite's relative equilibrium	5	750
SEDOV, L. I.: On prospective trends and problems in mechanics of continuous media	6	917
SEIFULLAEV, Kh. K.: Stability of circular cylindrical shells of variable thickness for a bending state of stress	2	352
SELEZNEVA, T. N.: see AKSENTIAN, O. K.	1	96
SERGEEV, Iu. A.: Connective diffusion to a reacting rigid sphere in Stokes flow	5	841
SERGEEV, V. S.: On the stability of permanent rotation of a heavy solid body about a fixed point	3	370
SHAIKHET, L. E.: Stability in first approximation of stochastic systems with aftereffect	6	1056
SHAPIRO, G. S.: see NIKISHIN, V. S.	5	859
SHAPOSHNIKOVA, G. A.: see GOGOSOV, V. V.	3	413
SHAPOSHNIKOVA, G. A.: see NALETOVA, V. A.	5	816
SHELEMENT'EV, G. S.: see ANAN'EV, B. I.	1	1
SHENIAVSKII, L. A. and SHMAL'GAUZEN, V. I.: The effect of turbulent noise on a pressure receiver located in an elastic medium	4	692
SHERMAN, D. I.: Asymptotic analysis of the state of stress of an infinite circular cylindrical shell	1	82
SHEVELEV, Iu. D.: see KAZEIKIN, S. N.	3	445
SHIROKOV, L. E.: Unbiased coordinate transformation	4	681
SHIRONOSOV, V. A.: see KRAIKO, A. N.	4	533
SHMAL'GAUSEN, V. I.: see SHENIAVSKII, L. A.	4	692
SHOIKHET, B. A.: An energy identity in physically nonlinear elasticity and error estimates of the plate equations	2	291
SILAKOV, V. P.: Certain particular cases of stability in first approximation of difference systems	1	154
SINKEVICH, O. A.: see ARTEMOV, V. I.	5	764
SLEZKIN, N. A.: Fokker-Planck equation for Brownian motion of rotating spherical particles	6	1068
SOLOP, S. A.: see VOROVICH, I. I.	4	646
SOLOV'EV, Iu. I.: see PROKHOROVA, N. L.	4	640
SOROKIN, S. N.: Eventual stability of differential systems of neutral type	1	36
STENCHIKOV, G. L.: Solution of the first order quasi-linear equation that defines the evolution of plasma turbulence	5	774
STEPANOV, R. D.: see BOGOMOL'NYI, V. M.	4	702
SUMBATOV, A. S.: On the application of certain generalizations of the area theorem in systems with rolling of rigid bodies	4	552
UFLIAND, Ia. S.: see ZLATIN, A. N.	1	67

	№	Page
USHAKOV, V. N.: see PLAKHINA, L. A.	5	869
USHAKOV, V. N.: see RESHETOV, V. M.	3	398
USTINOV, Iu. S.: On the completeness of a system of homogeneous solutions of the plates theory	3	489
TILLIAEVA, N. I.: see GRIN', V. T.	3	426
TRET'IAKOV, V. V.: Boundary integrals for the wave equation in the problem of plane wave diffraction	3	456
VASIL'EVA, N. L.: One-dimensional electrohydrodynamic flows of a three-component medium in the presence of shock waves	5	827
VATAZHIN, A. B. and GRABOVSKII, V. I.: On two-dimensional electrogasdynamic flows with allowance for the inertia of charged particles	1	55
VEKSLER, N. D. and KUTSER, M. E.: Asymptotics of the pressure field in a specific discontinuity for diffraction of a plane acoustic wave on an elastic cylindrical shell	3	464
VEL'MISOV, P. A.: On the propagation of small perturbations in a sonic stream and in a quiescent gas	1	63
VIGDERGAUZ, S. B.: Integral equation of the inverse problem of the plane theory of elasticity	3	518
VOROVICH, I. I. and SOLOP, S. A.: On the existence of periodic solutions in the nonlinear theory of oscillations of shallow shells, taking damping into account	4	646
VUJICIC, V. A.: Covariant integrals in mechanics	2	320
ZAICHIK, L. I.: see ALAD'EV, S. I.	6	1062
ZHURAVLEV, V. F.: Generalization of the Rayleigh theorem to gyroscopic systems	4	558
ZLATIN, A. N. and UFLIAND, Ia. S.: Axisymmetric contact problem on the impression of an elastic cylinder into an elastic layer	1	67
ZUBOV, L. M.: Theory of small deformations of prestressed thin shells	1	73
ZUBOV, L. M.: The representation of the displacement gradient of isotropic elastic body in terms of the Piola stress tensor	6	1012