AUTHOR / TITLE ALPHABETICAL INDEX

to Vol. 42, 1978

	№	Page
AGRANAT, V.M. and GRISHIN, A. M. : Qualitative analysis of unsteady heat and mass transfer modes in a boundary layer with chemical reactions and intensive injections	6	1156
AIZIN, L. B. and MAKSIMOV, V. P. : On the stability of flow of weakly compressible gas in a pipe of model roughness	4	691
AKULENKO, L. D. : Asymptotic solution of certain nonlinear problems of time-optimal response	1	75
AKULENKO, L. D. : Time-optimal stabilization of a perturbed system with invariant norm	4	646
AKULENKO, L. D. : Optimal synthesis in certain terminal control problems	6	1081
ALEKSANDROV, V. M. and ARUTIUNIAN, N. Kh. : Interaction of a moving elastic stamp with an elastic half-plane through a stiffener or a thin ideal fluid layer	3	499
ALEKSANDROV, V.M. and BURIAK, V. G. : Certain dynamic mixed problems of the theory of elasticity	1	116
ALENITSYN, A. G. and CHELKAK, S. I. : Resonant phenomena accompanying the scattering of a plane wave on an inhomogenous layer or a pack of inhomogeneous layers	3	519
ARUTIUNIAN, N. Kh. : see ALEKSANDROV, V.M.	3	499
ASLANOV, S.K. and SEMENOV, A.S. : Action of a buried impulsive load on a viscoelastic layer covering an elastic half-space	4	766
BABESHKO, V.A. and RUMIANTSEV, A.N. : Vibration of a stamp partially adhering to an elastic medium	6	1189
BAIBAZAROV, M. and SUBBOTIN, A. I. : Generalized potentials in a differential game with a fixed termination instant	2	205
BALITINOV, M.A. : On instability of the position of equilibrium of a Hamiltonian system	3	582
BARAN, V.P. GRILITSKII, D. V. and MOKRIK, R. I. : On the theory of dynamic thermoelasticity	6	1198
BEGMATOV, A. : On the nonlinear integro-differential equation of the theory of unsteady filtration with unkown boundary	5	937
BELIAEVA, S. D. : Investigation of stability of the unperturbed motion of an axisymmetric solid when its center of mass moves spatially in the air	2	369
BELINSKII, B. P. : Diffraction of a plane wave by a plate reinforced by a protruding stiffening rib	3	510

	№	Page
BELYKH, V.N. and NEKORKIN, V.I. : Qualitative structures and bifurcations generated by a nonlinear third-order phase synchronization equation	5	871
BERDICHEVSKII, V.L. :Energy methods in certain problems of damping of solutions	1	140
BERMAN, V.S.: Unsteady propagation of the combustion wave in a medium with slowly varying parameters	3	472
BODNER, V.A. RODNISHCHEV, N.E. and IURIKOV, E.P. : On the optimization of systems defined by stochastic differential equations	5	848
BOLOTIN, S.V. and KOZLOV, V.V.: Libration in systems with many degrees of freedom	2	256
BORZYKH, A.A. and CHEREPANOV, G.P.: The plane problem of the theory of convective heat mass transfer	5	916
BREZHNEV, A.L. and CHERNOV, I.A.: Derivation of higher approximations in the problem of special flows in plane Laval nozzles	2	303
BROVKO, G.L. : Necessary and sufficient conditions for homogeneous simple strain	4	747
BUDAEV, V.S.: Uniqueness of the external problems solution in the theory of elastic vibrations of anisotropic media	2	354
BURENIN, A.A. and CHERNYSHOV, A.D.: Shock waves in an isotropic elastic space	4	758
BURIAK, V.G.: see ALEKSANDROV, V.M.	1	116
BURYSHKIN, M.L.: Generalized periodic problem of the theory of elasticity	3	545
BUSLAEVA, L.T. : Stochastic control in a differential game	4	609
CHEKANOV, V.V.: see KIRIUSHIN, V.V.	4	710
CHELKAK, S.I.: see ALENITSYN, A.G.	3	519
CHEREPANOV, G.P. : see BORZYKH, A.A.	5	916
CHERKAEV, A.V.: On the question of formulating the problem of optimal design of freely oscillating structures	1	194
CHERNOUS'KO, F.L.: On the motion of a solid body with elastic and dissipative elements	1	32
CHERNOV, I.A.: see BREZHNEV, A.L.	2	303
CHERNYSHOV, A.D.: A heuristic method of solving nonlinear problems of the elliptic type for doubly connected regions	2	335
CHERNYSHOV, A.D. : see BURENIN, A.A.	4	758
CHIZHOV, V.E.: see GOLOVIN, A.M.	1	106
CHURILOV, V.A.: Action of an elliptic stamp moving at a constant speed on an elastic half-space	6	1176

	№	Page
DMITRIEV, M. G.: On a class of singularly-perturbed problems of optimal control	2	238
DOLGOVA, I. M. and MEL'NIKOV, Iu. A.: Construction of Green's functions and matrices for equations and systems of the elliptic type	4	740
ELFIMOV, V. S.: Existence of periodic solutions of equations of motion of a solid body similar to the Lagrange gyroscope	2	262
FEDIK, I. I. : see KOLESOV, V. S.	3	480
FEIGIN, M. I.: On the structure of C-bifurcation boundaries of piecewise-continuous systems	5	885
FILIPPOV, I. G.: On the theory of diffraction of linear visco-elastic waves	1	165
FILIPPOVA, L. M. : Three-dimensional contact problem for a prestressed elastic body	6	1183
FOKIN, A. G.: Statistical properties of inhomogeneous solid media: central moment functions of material characteristics	3	570
GERSHUNI, G. Z., ZHUKHOVITSKII, E. M. and IORSHINA, S. M., On convective instability of an inclined fluid layer equilibrium relative to spatial perturbations	2	310
GETMANOV, V. G.: Investigation of time-optimal response of electromagnetic correction of a gyroscope	3	592
GNESIN, V. I., GRODZINSKII, V. L. and SOKOLOVSKII, G. A.: Equations of gasdynamics in a noninertial deformable coordinate system	5	908
GOLOVIN, A. M. and CHIZHOV, V. E.: On the determination of sedimentation rate of a homogeneous suspension	1	106
GORLACH, B. A.: Determination of the geometric characteristics of shells of revolution satisfying finite strain compatibility conditions	2	341
GRILITSKII, D. V.: see BARAN, V. P.	6	1198
GRINFEL'D, M. A. : Ray method of calculating the wave front intensity in nonlinearly elastic material	5	958
GRISHIN, A. M. : see AGRANAT, V. M.	6	1156
GRODZINSKII, V. L.: see GNESIN, V. I.	5	908
GRUMONDZ, V. T.: Investigation of oscillations in nonlinear mechanical systems of arbitrary order	1	65
GRUMONDZ, V. T.: Oscillations of mechanical systems that do not become linear when the parameter vanishes	6	1137
GUPALO, Iu. P., POLIANIN, A. D., PRIADKIN, P. A., and RIAZANTSEV, Iu. S.: On the unsteady mass transfer on a drop in a viscous fluid stream	3	462

	№	Page
GUSEIN-ZADE, M. I. : Asymptotic analysis of boundary and initial conditions in the dynamics of thin plates	5	978
GUSIATNIKOV, P. B.: On the necessity of a sufficient optimality condition for pursuit time	6	1100
GUZ', A. N.: On the stability of elastic compressible bodies under all-around compression	5	1021
IAKOVLEV, G. I. : On reactions in systems with one-sided supports	4	800
IORSHINA, S. M. : see GERSHUNI, G. Z.	2	310
IUDOVICH, V. I.: see SEDENKO, V. I.	6	1148
IURIKOV, E. P. : see BODNER, V. A.	5	848
KALABA, R. E. : see ZAGUSTINA, E. A.	2	390
KALASHNIKOV, A. S.: On continuous dependence of generalized solutions of the equation of unsteady filtration on a function determining the flow mode	1	191
KARAPETIAN, A. V. : On the stability of steady motions of Chaplygin's nonholonomic systems	5	863
KHAPALOV, A. Iu.: The problem of minimax mean square filtration in parabolic systems	6	1112
KIPNIS, L. A.: Edge crack at the boundary of different media	2	364
KIRIUSHIN, V. V., NALETOVA, V. A. and CHEKANOV, V. V.: The motion of magnetizable fluid in a rotating homogeneous magnetic field	4	710
KOLESNIKOV, N. N. : see KOZLOV, V. V.	1	26
KOLESOV, Iu. S.: see KOLESOV, V. S.	3	480
KOLESOV, V. S., KOLESOV, Iu. S., KULIKOV, A. N. and FEDIK, I. I.: On a mathematical problem of the theory of elastic stability	3	480
KOLMANOVSKII, V. B. and SHAIKHET, L. E.: On the approximate synthesis of the optimal control of stochastic quasilinear systems with aftereffect	6	1070
KONKINA, L. I. : On an averaging method in dynamics of a rigid body	1	185
KORNEEV, V. A. and MELIKIAN, A. A.: Impulse-differential encounter game	2	220
KOROTKII, A. I. and OSIPOV, Iu. S: Approximation in problems of position control of parabolic systems	4	631
KOSMODAMIANSKII, A. S. and LOZHKIN, V. N.: Electroelastic equilibrium of a thin anisotropic layer with piezoelectric effects taken into account	4	781
KOZLOV, V. V.: see BOLOTIN, S. V.	2	256
KOZLOV, V. V.: Nonexistence of univalued integrals and branching of solutions in solid body dynamics	3	420
KOZLOV, V. V. and KOLESNIKOV, N. N.: On theorems of dynamics	1	26
KRASOVSKII, N. N.: Program constructions for position game control	1	1

	№	Page
KRAVCHUK, A. S.: Formulation of the problem of contact between several deformable bodies as a nonlinear programming problem	3	489
KRIAZHIMSKII, A. V.: On stable position control in differential games	6	1055
KRIAZHIMSKII, A. V. and MAKSIMOV, V. I.: Approximation in linear difference-differential games	2	212
KRIVENKOV, Iu. P.: Sufficient conditions of optimality in linear problems of the mathematical theory of optimal processes with phase constraints	4	659
KULIKOV, A. N. : see KOLESOV, V. S.	3	480
KUNISTSYN, A. L.: On the asymptotic stability of resonance systems	6	1131
LAGUNOV, V. N.: see VASIL'EVA, L. G.	6	1237
LAKHADANOV, V. M.: On quadratic integrals of linear antonomous systems	3	579
LARIN, V. B: On the weak control of slowly damped systems	6	1093
LEBEDEV, D. V.: On imparting to a solid body a stable rotation mode with specified orientation of its axis of rotation	3	588
LITVINOV, V. G., and MEDVEDEV, N. G.: Complementary methods in the problems of the state of stress in shells of revolution	4	773
LIUBUSHIN, A. A.: Convergence of the method of small parameter for weakly controllable optimal systems	3	597
LOGINOV, M. I.: On a linear guidance game problem	4	624
LOZHKIN, V. N.: see KOSMODAMIANSKII, A. S.	4	781
MAKSIMOV, V. I.: On the existence of a saddle point in a difference—differential encounter-evasion game	1	13
MAKSIMOV, V. I.: see KRIAZHIMSKII, A. V.	2	212
MAKSIMOV, V. P.: see AIZIN, L. B.	4	691
MANASHKIN, L. A.: Oscillations of one-dimensional linear systems with mobile weights under the action of longitudinal impacts	6	1255
MARKEEV, A. P. and SOKOL'SKII, A. G.: Method of constructing and investigating stability of periodic motions of autonomous Hamiltonian systems	1	51
MARKEEV, B. M. and PLATONOV, A. A.: On the solution of the two-point boundary value problem in the theory of continuous-flow reactors	2	327
MARTYNOV, Iu. V.: On a certain extension of the problem of the Maxwell toroidal vortex	4	671
MEDVEDEV, N. G.: see LITVINOV, V. G.	4	773
MELIKIAN, A. A. : see KORNEEV, V. A.	2	220
MEL'NIKOV, Iu. A.: see DOLGOVA, I. M.	4	740
MEN'SHIKOV, I. S.: Hierarchical differential game	1	21
MIRONENKO, N. I.: On the state of stress of a strip weakened by identical circular transverse openings	5	1014
MOKRIK, R. I.: see BARAN, V. P.	6	1198

	№	Page
MORDUKHOVICH, B. Sh.: On difference approximations of optimal control systems	3	452
MORONOV, M. V.: The method of two-sided transfer of parameters for solving boundary value problems of the theory of oscillations	3	435
MOROZOV, S. F. and SMIRNOV, I. P.: Principles of minimum in problems of optimal control of random processes	2	243
MOSOLOV, P. P. : On certain mathematical questions of the theory of incompressible viscoplastic media	4	787
NALETOVA, V. A.: see KIRIUSHIN, V. V.	4	710
NEDZHESKU-KLEZHA, S: On the theorem of uniqueness for two-mode elastoplastic processes	2	396
NEISHTADT, A. I.: Bifurcations of the phase pattern of an equation system arising in the problem of stability loss of selfoscillations close to 1:4 resonance	5	896
NEKORKIN, V. I.: see BELYKH, V. N.	5	871
OKHEZIN, S. P.: On the control of a hyperbolic system under conditions of uncertainty	4	638
OSIPOV, Iu. S.: see KOROTKII, A. I.	4	631
OSIPOV, Iu. S. and PIMENOV, V. G.: On the theory of differential games in systems with aftereffect	6	1061
OSOKIN, A. E. and SUVOROVA, Iu. V.: Nonlinear governing equation of a hereditary medium and methodology of determining its parameters	6	1214
OZIRANER, A. S.: On optimal stabilization of motion with respect to a part of variables	2	284
OZIRANER, A. S.: On optimal stabilization of the equilibrium positions of a solid with a cavity containing a fluid	4	803
PAIMUSHIN, V. N.: Relations of the theory of thin Timoshenko-type shells in terms of the curvilinear coordinates of the reference surface	4	809
PIMENOV, V. G.: see OSIPOV, Iu. S.	6	1061
PLATONOV, A. A.: see MARKEEV, B. M.	2	327
PODALKOV, V. V. and ROMANOV, V. A.: Stress concentration at the boundary of a microinhomogeneous elastic half-space	3	564
POLIANIN, A. D.: see GUPALO, Iu. P.	3	462
POLIANIN, D. D.: On diffusion interaction of solid particles at high Péclet numbers	2	315
POPOV, G. Ia.: On a method of solving mechanics problems for domain with slits or thin inclusions	1	125
PORUCHIKOV, V. B.: Solution of dynamic problems of the theory of elasticity for wedge-like regions with mixed boundary conditions	5	988

	№	Page
PRIADKIN, P. A.: see GUPALO, Iu. P.	3	462
PROKOP'EV, V. P.: see VOROTNIKOV, V. I.	2	280
REGIRER, S. A.: On the problem of continuous models of suspensions	4	722
REGIRER, S. A.: and SHADRINA, N. Kh.: On models of thixotropic fluids	5	925
RIAZANTSEV, Iu. S.: see GUPALO, Iu. P.	3	462
RODNISHCHEV, N. E.: see BODNER, V. A.	5	848
ROMANOV, V. A.: see PODALKOV, V. V.	3	564
ROSHCHIN, N. V.: Unsafe stability boundaries of the Lorentz model	5	1038
ROSSIKHIN, Iu. A.: On nonstationary vibrations of plates on an elastic foundation	2	347
RUDEV, A. N.: see ZUBOV, L. M.	5	1003
RUMIANTSEV, A. N.: see BABESHKO, V. A.	6	1189
RUMIANTSEV, V. V.: On Hamilton's principle for nonholonomic systems	3	407
RYZHOV, O. S. and TERENT'EV, E. D.: The laminar hypersonic trail downstream of a lift airfoil	2	290
SAVEL'EV, Iu. V.: Study of systems of differential equations near the boundaries of the stability region	2	374
SEDENKO, V. I. and IUDOVICH, V. I.: Stability of steady flows of perfect incompressible fluid with a free boundary	6	1148
SEDOV, L. I.: On the addition of motions relative to deformable reference systems	1	181
SEDOV, L. I.: see ZHELNOROVICH, V. A.	5	827
SEDOVA, G. L.: Disintegration of an arbitrary discontinuity of the electromagnetic field in ferromagnetics	4	703
SEISOV, Iu. B.: On sufficient optimality conditions	6	1243
SELEZNEV, L. I.: see SLOBODKINA, F. A.	4	733
SEMENOV, A. S.: see ASLANOV, S. K.	4	766
SHADRINA, N. Kh.: see REGIRER, S. E.	5	925
SHAIKHET, L. E.: see KOLMANOVSKII, V. B.	6	1070
SHAVALIEV, M. Sh.: The Barnett approximation of the distribution function and the super-Barnett contributions to the stress tensor and the heat flux	4	698
SHLIAPOBERSKII, Ia. V.: Asymptotic solution of a three-dimensional problem of equilibrium of an elastic body with a cut	3	556
SHOIKHET, B. A.: see TRAPEZNIKOV, L. P.	6	1205
SIBGATULLIN, N. R., SLEZKIN, N. A. and SOROKIN, E. A.: On the stability of an aerostatic bearing with an elastic skirt	5	947
SIDOROV, A. F.: On certain gas flows in a gravitational field	1	97
SIMONENKO, V. A.: see ZABABAKHIN, I. E.	3	602
SIMONOV, I. V.: Diffraction of shock waves at small angles in a perfect compactible medium	1	174

	№	Page
SINAISKII, E. S.: On numerical realization of the function of the hereditary operator	6	1223
SKIMEL, V. N.: On the stiffness property of motion	3	427
SKOBELEV, B. Iu.: Secondary flows in a plane channel	2	377
SKRIABIN, B. N.: The formation of a limit cycle at a "merged focus"	5	1042
SLEZKIN, N. A.: see SIBGATULLIN, N. R.	5	947
SLOBODKINA, F. A. and SELEZNEV, L. I.: On the stability of compression shock in streams of spontaneously condensing vapour	4	733
SMIRNOV, I. P.: see MOROZOV, S. F.	2	243
SOKOLOV, V. I.: Stabilization of controlled systems by nonlinear control actions	3	446
SOKOL'SKII, A. G.: see MARKEEV, A. P.	1	51
SOKOLOVSKII, G. A.: see GNESIN, V. I.	5	908
SOLODOVNIKOV, V. N. :Optimization of elastic shells of revolution	3	535
SOROKIN, E. A.: see SIBGATULLIN, N. R.	5	947
SUBBOTIN, A. I.: see BAIBAZAROV, M.	2	205
SUMBATOV, A. S.: On the problem of determining the existence of ignorable coordinates in conservative dynamic systems	1	42
SUMBATOV, A. S.: Solution of one of Birkhoff's problems	6	1248
SUVOROVA, Iu. V.: see OSOKIN, A. E.	6	1214
SVEKLO, V. A. and TORUBAROVA, N. S.: Setting of a plane stamp acting on an orthotropic half-space	1	198
TEODOROVICH, E. V.: Sliding of a cylinder on a viscoelastic foundation	2	384
TERENT'EV, E. D.: see RYZHOV, O. S.	2	290
TERSKOV, A. Kh.: see ZAVOLZHENSKII, M. V.	1	88
TKHAI, V. N.: On stability of contant Laplace solutions of the unrestricted three-body problem	6	1123
TOMSKII, G. V.: Encounter-evasion problems in quasidynamic systems	2	229
TORUBAROVA, N. S.: see SVEKLO, V. A.	1	198
TRAPEZNIKOV, L. P. and SHOIKHET, B. A.: On the solution of creep theory problems for ageing bodies with growing slits and cavities	6	1205
TSEBER, A. O.: Certain peculiarities of transport phenomena in suspensions with internal rotations	4	716
VAKHRAMEEV, S. A.: Theorem on the alternative for a nonstationary differential encounter-evasion game	6	1232
VASIL'EVA, L. G. and LAGUNOV, V. N.: On a problem of correction of the controlled process	6	1237
VEISSENBERG, A. N.: Algorithm for the derivation of Liapunov's function in the form of a sum of squares of integrals	5	1032
VOLOKITIN, G. I.: Influence of physical and geometrical nonlinearity on the value of the upper critical pressure in buckling of a hollow sphere	3	528

	№	Page
VOROTNIKOV, V. I. and PROKOP'EV, V. P.: On stability of motion of linear systems with respect to a part of variables	2	280
VOZLINSKII, V. I.: On the stability of points of equilibrium branching	2	270
WNUK, M. P.: Subcritical growth of cracks	4	816
ZABABAKHIN, I. E. and SIMONENKO, V. A.: The spherical centered compression wave	3	602
ZAGUSTINA, E. A. and KALABA, R. E.: New representation and method of solving Fredholm integral equations	2	390
ZAKORKO, V. N.: Contact problem for a layer with two stamps	6	1169
ZAVOLZHENSKII, V. M. and TERSKOV, A. Kh.: Motion of a thin blanket of heavy viscous fluid on a rotating planet in a circular orbit	1	88
ZHELNOROVICH, V. A. and SEDOV, L. I.: On the variational method of derivation of equations of state for a material medium and a gravitational field	5	827
ZHUKHOVITSKII, E. M.: see GERSHUNI, G. Z.	2	310
ZHURAVLEV, V. F.: Equations of motion of mechanical systems with ideal one-sided links	5	839
ZINCHENKO, A. Z.: Calculation of hydrodynamic interaction between drops at low Reynolds numbers	5	1046
ZLATIN, A. N.: Variational method of solving a contact problem for a coupled cylinder and a layer	1	157
ZOLOTAREV, A. A.: Development of ship waves	4	679
ZUBOV, L. M. and RUDEV, A. N.: Homogeneous solutions for a prestressed elastic plate	5	1003