AUTHOR / TITLE ALPHABETICAL INDEX

Vol.45, 1981

	No.	Page
ABGARIAN K.A.: Fundamental theorems on stability of a process in a prescribed time interval.	3	299
AGALAROV D.G., NURIEV B.R. and RAKHMATULIN Kh.A.: Impact of a cone on a deformable string.	e 2	286
AKULENKO L.D.: Applications of the methods of averaging and successive	2	200
approximations for studying nonlinear oscillations.	5	575
AKULENKO L.D.: Reduction of an elastic system to a prescribed state by use of a boundary force.	6	827
ALEKSANDROV V.M. and KOVALENKO E.V.: Stamp motion on the surface of a thin covering on a hydraulic foundation.	4	542
ALEKSANDROV V.M. and ZELENTSOV V.B.: Asymptotic methods of solving two-dimensional dynamic problems of a viscoelastic layer with mixed		
boundary conditions.	2	238
AMIRASLANOV I.A. and CHEREPANOV G.P.: Filtration of fluid in curvilinear layers		
of variable thickness.	6	865
APYKHTIN N.G.: On stabilization of the steady state rotations of a rigid body. ARUTIUNIAN N.Kh. and KOLMANOVSKII V.B.: On the stability of inhomogeneously	3	380
viscoelastic reinforced bars.	6	839
ASHCHEPKOV L.T.: Optimal control of a system with intermediate conditions.	2	153
BABESHKO V.A. and PRIAKHINA O.D.: Method of fictitious absorption in plane		
contact problems of the theory of elasticity in the presence of adhesion.	4	535
BARKIN Iu.V.: Periodic and conditionally periodic solutions in the problem of motion of a heavy solid about a fixed point.	3	391
BARKIN Iu.V.: On equilibrium patterns of fluid bodies situated at libration	5	552
points.	4	449
BATALOVA Z.S., DUBROVINA I.A., NEIMARK IU.I. and ORLOVA E.E.: On the structure of the phase space and bifurcations in the discrete Lorenz model of convective		
turbulence.	4	468
BELEN'KII I.M.: On a method for the uniformization of solutions in central		
motion problems.	1	24
BERDICHEVSKII V.L.: On the energy of an elastic rod.	4	518
BERDICHEVSKII V.L.: On the force acting on a body in viscous fluid.	5	628
BERMAN V.S.: Evolution of the long wave finite perturbations during nonsteady		
combustion of powder.	6	814
BERMAN V.S. and SHEVTSOVA V.M.: Igniting a plane wedge by a glowing surface. BETIAEV S.K.: Formation of a jet in case of nonstationary flow of a perfect fluid	4 1	500
from a slit.	6	778
BEZHANOV K.A.: Shock wave diffraction at normal incidence on the free surface		
of liquid containing a wedge with its tip at the interface. BOGDANOVA E.V.: On the linear problem of a supersonic flow of a viscous gas	4	494
past a vibrator.	4	474
BORSHCHUK E.M., PANASIUK V.V. and SAVRUK M.P.: State of stress in a plane		
circular ring weakened by a system of curvilinear cuts.	2	258
BORZYKH A.A.: A three-dimensional self-similar problem of supersonic wedging	-	
of an elastic body.	2	252
BRENDELEV V.N.: On the realization of constraints in nonholonomic mechanics. BREZHNEV A.L. and CHERNOV I.A.: On the formation of shock waves in Laval	3	351
nozzles.	4	486
BURYSHKIN M.L.: General technique for the solution of nonhomogeneous linear problems for symmetric mechanical systems.	c	626
BYKOVTSEV G.I. and TSVETKOV Iu.D.: Application of the perturbation method to the	5	636
theory of torsion of elasto-plastic bars.	5	700

	No.	Page
CAPODANNO P.: Extension of the Levi-Civita theorem to nonholonomic systems.	3	332
CHEREPANOV G.P.: see AMIRASLANOV I.A. CHERNOUS'KO F.L.: Ellipsoidal estimates of a controlled system's attainability	6	865
domain.	1	7
CHERNOV I.A.: see BREZHNEV A.L.	4	, 486
CHERNYI L.T.: Passing from mechanics of the special theory of relativity to		
Newtonian mechanics, and the relativistic effects.	6	742
CHIKOVA S.P.: On stability of the plane flame front.	2	217
CHIRIKOV V.A.: see LILOV L.K.	3	383
DAIN E.A.: Asymptotic formula for the natural frequencies of noncircular		
cylindrical fluid-filled shells.	1	134
DIESPEROV V.N.: Transonic rarefaction flow in the neighborhood of a convex		
corner.	4	478
DOKSHEVICH A.I.: Two classes of motion of the Kovalevskaia top.	4	550
DUBROVINA I.A.: see BATALOVA Z.S.	4	468
DVORIANINOV V.G., SVESHNIKOVA E.I. and SIBGATULLIN N.R.: On friction resistance	c	000
to motion of a aerostatic carrier with elastic diaphragm.	6	809
EL'-SABAA F.M.: Periodic solutions of the problem of motion of a heavy rigid		
body about a fixed point in the Kovalevskaia case.	4	555
FAM GUEN: On the theory of ignorable displacements for generalized Poincaré $-$		
Chetaev equations.	3	343
FOMIN V.M.: see MEDVEDEV A.E.	4	459
FRIDMAN V.M.: see MERKIN M.R.	1	51
GOLUBIATNIKOV A.N. and TRUSKINOVSKII L.M.: A class of exact solutions in the		
problem of asymmetric gravitational compression of a body.	5	722
GOL'DMAN P.S. and NAGAEV P.F.: Degenerate periodic motions in the case of the		
generating set of quasi-periodic solutions.	4	431
GRECHANNYI O.A. and TOKARCHUK V.V.: On the kinetic theory of thermal hydrodynamic fluctuations in inhomogeneous gas.	1	85
GUPALO IU.P., NOVIKOV V.A. and RIAZANTSEV IU.S.: Continuous-flow system with	1	05
fractional order chemical reaction in the presence of axial dispersion.	2	213
GUREVICH I.L.: On the existence of solution of the problem of potential flow		
over a symmetric profile in a channel.	5	714
GUZ' A.N.: On the theory of stability of cylindrical thin-walled shells under	0	074
the action of external pressure.	2	274
ILIEV IL. and RUSINOV Iv.: On two approaches to the study of the equilibrium state	25	
of a nonholonomic mechanical system.	3	414
ISAKOV A.I.: Certain identification problems for linear discrete systems with		
quadratic constraints.	2	173
IUSHIN A.V.: see SEMKIN B.V.	2	291
IVANOV M.Ia. and SLOBODKINA F.A.: Analysis of steady solutions of invariant		
quasi-linear third order equations.	1	94
KALINCHUK V.V. and POLIAKOVA I.B.: On the excitation of a prestressed cylinder.	2	282
KANAUN S.K.: On the problem of a three-dimensional crack in an anisotropic		
elastic medium.	2	262
KARAPETIAN A.V.: On realizing nonholonomic constraints by viscous friction		
forces and Celtic stones stability.	1	30
KARAPETIAN A.V.: On stability of steady motions of a heavy solid body on an	3	368
absolutely smooth horizontal plane. KARAPETIAN A.V.: On permanent rotations of a heavy solid body on an absolutely	J	200
rough horizontal plane.	5	604
KASATKIN G.V.: Extremal properties of stable resonance motions.	6	761

	No.	Page
KATS I.Ia.: On the convergence of stochastic approximation procedure under	_	
Markov noise in the measurements.	5	609
KHABEEV N.S.: Resonance properties of vapor bubbles. KHARLAMOV M.P.: see POGOSIAN T.I.	4 4	512 445
KHATVANI L.: see TEREKI I.	3	311
KHAZIN L.G. and SHNOL' E.E.: On the stability of the equilibrium position in	-	
critical and near-critical cases.	4	437
KIPNIS L.A.: Homogeneous problem for a wedge with a symmetric crack at the apex.	2	293
KOLMANOVSKII V.B.: see ARUTIUNIAN N.Kh.	6	839
KOSENKO I.I.: On libration points near a gravitating and rotating triaxial	1	18
ellipsoid. KOVALENKO E.V.: The dynamic problem of interaction between an elastic punch and	Ŧ	10
a fluid through a thin cover.	2	244
KOVALENKO E.V.: see ALEKSANDROV V.M.	4	542
KOZHURO L.A.: A family of axisymmetric vortex flows with a surface discontinuity		
of the Bernoulli constant.	1	64
KOZLOV V.V.: Equilibrium instability in a potential field, taking account of		
viscous friction.	3	417
KRAIKO A.N.: Variational principles for perfect gas flows with strong discontinuities expressed in Euler variables.	2	184
KRASOVSKII A.N., KRASOVSKII N.N. and TRET'IAKOV V.E.: Stochastic programmed	2	104
design for a deterministic positional differential game.	4	425
KRASOVSKII N.N.: see KRASOVSKII A.N.	4	425
LEBEDEV D.V.: On the control of a rigid body's triaxial orientation in the		
presence of constraints on the controls.	3	398
LEONOV G.A.: On the stability in the large of nonlinear systems in the critical	4	557
case of two zero roots. LEONOV M.Ia. and NISNEVICH E.B.: Structural representations in the mechanics of	4	557
elasto-plastic strains.	5	694
LEVITSKII L.A. and LUK'IANOV V.D.: Acoustic wave diffraction by an ideal screen	•	
in a plane waveguide with thin elastic walls.	1	107
LILOV L.K. and CHIRIKOV V.A.: On the dynamics equations of systems of		
interconnected bodies.	3	383
LIUBIMOV D.V.: see LIUBIMOVA T.P.	2	208
LIUBIMOVA T.P. and LIUBIMOV D.V.: On convective motions of viscoplastic fluid	2	208
in a porous medium. LOBAS L.G.: Self-oscillations of a wheel on self-orientating strut of an	2	200
undercarriage with nonlinear damper.	4	561
LOBAS L.G.: see VERBITSKII V.G.	5	710
LOBODA V.V.: Use of an averaging method in computing a plate reinforced with a		
stringer.	5	650
LUK'IANOV V.D.: see LEVITSKII L.A.	1	107
LYSIKOV Iu.I.: Expansion into vacuum of a gaseous ellipsoid with repulsion between the particles.	6	796
between the particles.	0	/90
MANUKIAN S.M.: High-frequency asymptotics of solution of the nonlinear problem		
near a caustic.	l	69
MARINBAKH M.A.: The general case of Liapunov's periodic motions of a heavy solid		
body with a single fixed point.	5	598
MEDVEDEV A.E. and FOMIN V.M.: The method or moving coordinates in problems of		
continuous medium mechanics. MEDVEDEV N.G.: Problem of optimal control by the natural frequency of oscillation	4	459
of an orthotropic shell of revolution and its finite-dimensional	ns	
approximation.	6	834
MERKIN M.R. and FRIDMAN V.M.: Projection method of solving a problem of forced	-	001
unsteady oscillations in nonlinear systems with slowly varying parameters.	1	51
MIASNIKOV M.P.: Stability of flow of a viscous incompressible fluid along an		
elastic wall.	4	464

MIKHLIN IU.V.: see ZHUPIEV A.L.	No. 3	Page 328
MIRENKOVA G.N. and SOSNINA E.G.: Rigid ellipsoidal disc and needle in an anisotropic elastic medium.	1.	122
MOKRIK R.I. and PYR'EV Iu.A.: Properties of solutions of the dynamic problems of the generalized coupled thermoelasticity.	5	685
NAGAEV P.F.: see GOL'DMAN P.S. NAKHMEIN E.L., NULLER B.M. and RYVKIN M.B.: Deformation of a composite elastic	4	431
plane weakened by a periodic system of the arbitrarily loaded slits. NAZAROV G.I. and PUCHKOVA N.G.: Analytic solution in complex form for a class of	6	821
elastic moduli for a two-dimensional inhomogeneity of a body.	4	530
NEIMARK Iu.I.: see BATALOVA Z.S.	4	468
NEISHTADT A.I.: On the accuracy of conservation of the adiabatic invariant. NEISHTADT A.I.: Estimates in the Kolmogorov theorem on conservation of	1	58
conditionally periodic motions. NIASHIN Iu.I.: On control of the process of material machining leading to	6	766
reduction in the residual stresses.	2	270
NIKOLAEVSKII V.N.: On fracture of viscoelastic bodies.	6	848
NISNEVICH E.B.: see LEONOV M.Ia.	5	694
NOVIKOV V.A.: see GUPALO Iu.P.	2	213
NULLER B.M.: see NAKHMEIN E.L.	6	821
NURIEV B.R.: see AGALAROV D.G.	2	286
ORLOVA E.E.: see BATALOVA Z.S.	4	468
OSEPASHVILI V.Z. and SULIKASHVILI R.S.: On the stability and bifurcation of the steady state motions of a heavy gyrostat.	3	419
OSIPOV I.O.: On the propagation of elastic vibrations from a point source within		
an anisotropic half-space. OSIPOV Iu.S. and PIMENOV V.G.: On positional control under aftereffect in the	2	231
controlling forces.	2	159
OVSEEVICH A.I.: Asymptotic behavior of the Bellman function in a stochastic optim control problem.	nal 2	179
OZIRANER A.S.: On stability of motion relative to a part of variables under constantly acting perturbations.	3	304
PANASIUK V.V.: see BORSHCHUK E.M.	2	258
PIMENOV V.G.: see OSIPOV Iu.S.	2 6	159 785
PLIS V.I.: Propagation of Kelvin waves from a channel into a semibounded tank. POBEDRIA B.E.: Quasi-static problem of mechanics in stresses of a deformable	-	
solid. POGOSIAN T.I.and KHARLAMOV M.P.: Domain of feasible motions in certain mechanical		145
systems.	4	445
POKOTILO V.G.: see PSHENICHNYI B.N.	1	1
POLIAKOVA I.B.: see KALINCHUK V.V. POLIANIN A.D.: Diffusion to a particle in a shear gas flow in the case of	2	282
arbitrary kinetics of the surface reaction. POLIANIN A.D. and SERGEEV Iu.A.: On the concentration field of an orderly system	4	568
of reacting plates distributed along a stream.	1	77
POVSTENKO Iu.Z .: Conditions on the line of contact of three media.	5	690
PRIAKHINA O.D.: see BABESHKO V.A.	4	535
PSHENICHNOV G.I.: see PURTOV V.A.	5	672
PSHENICHNYI B.N. and POKOTILO V.G.: On observation problems in discrete systems.	1	1
PUCHKOVA N.G.: see NAZAROV G.I.	4	530
PURTOV V.A. and PSHENICHNOV G.I.: Optimal design of a spherical net-like shell with a fixed first eigen-frequency of axisymmetric oscillations.	5	672
PYR'EV IU.A.: see MOKRIK R.I.	2	286
RAKHMATULIN Kh.A.: see AGALAROV D.G.	2	286
RIASHKO L.B.: Stabilization of linear systems with multiplicative perturbations	5	581
and incomplete information.	2	501

	No.	Page
RIAZANTSEV Iu.S.: see GUPALO Iu.P.	2	213
ROGACHEVA N.N.: Equations of state of piezoceramic shells.	5	677
ROZENBLAT G.M.: Optimal parametric stabilization of an inverted pendulum. RUBANOVSKII V.N.: On the relative equilibrium of a gyrostat satellite in the	1	45
generalized limited circular problem of three bodies.	3	360
RUSINOV Iv.: see ILIEV II.	3	414
RVACHEV V.L. and SINEKOP N.S.: Structures of the difference-type solutions of the axisymmetric problems for elastic bodies of finite dimensions.	5	646
RYBAKOV L.S.: On discrete interaction of a plate and a damaged stringer.	1	127
RYVKIN M.B.: see NAKHMEIN E.L.	6	821
RYZHOV O.S.: see ZHUK V.I.	3	403
SAMSONOV V.A.: On the feasibility of stabilizing steady motions of systems with	5	403
pseudo-ignorable coordinates.	3	374
SARYCHEV V.A.: see ZLATOUSTOV.V.A.	ĩ	37
SAVRUK M.P.: see BORSHCHUK E.M.	2	258
SAZONOV V.V.: see ZLATOUSTOV V.A.	1	37
SEDOV L.I.: The forms of energy and their transformations.	6	727
SEDOVA G.L.: Strong discontinuities of electromagnetic field in magnetics.	5	718
SEKERZH-ZEN'KOVICH S.Ia.: Construction of the fundamental solution for the	-	
operator of internal waves.	2	192
SEMKIN B.V. and IUSHIN A.V.: On Danilovskaia problem for the case of a boundary of an elastic half-space moving with constant velocity.	2	291
SEREGIN G.A. and TROITSKII V.A.: On the best position of elastic symmetry planes	3	
in an orthotropic body.	1	139
SERGEEV IU.A.: see POLIANIN A.D. SHACHNEV V.A.: Some representations of the solutions of boundary value problems	1	77
of two-dimensional static thermoelasticity.	1	114
SHAKHVERDIAN S.V.: On the solution of optimization problems with constraints.	5	615
SHEVTSOVA V.M.: see BERMAN V.S.	4	500
SHNOL' E.E.: see KHAZIN L.G.	4	437
SIBGATULLIN N.R.: see DVORIANINOV V.G. SIMONOV I.V.: A formula for the imaginary parts of the eigenvalues problem	6	809
concerning a shell oscillation in a compressible fluid.	2	279
SINEKOP N.S.: see RVACHEV V.L.	5	646
SINITSYN V.A.: On the Hamilton-Ostrogradskii principle in the case of impulsive motions of dynamic systems.	9 3	356
SINITSYN V.A.: Carnot-Ostrogradskii theorems for the systems with nonstationary		
constraints.	6	861
SLOBODKINA F.A.: see IVANOV M.Ia.	1	94
SMETANIN B.I. and SOBOL' B.V.: Extension of an elastic half-space with a crack perpendicular to its surface.	5	707
SMIRNOV E.M.: Self-similar solutions of Navier-Stokes equations for rotational		
flow of incompressible fluid in a round pipe.	5	623
SOBOL'B.V.: see SMETANIN B.I.	5	707
SOKOLOV F.A.: Cylindrical shell subjected to lateral dynamic pressure. SOKOL'SKII A.G.: On stability of self-contained Hamiltonian system with two	4	571
degrees of freedom in the case of zero frequencies.	3	321
SOSNINA E.G.: see MIRENKOVA G.N.	1	122
SRUBSHCHIK L.S.: Secondary edge effect in the bending of thin elastic shells.	5	663
SULIKASHVILI R.S.: see OSEPASHVILI V.Z.	3	419
SULIM G.T.: Antiplane problem for a system of linear-inclusions in an isotropic		
medium.	2	223
SUMBATOV A.S.: On the linear integrals of the Chaplygin equations. SUMBATOV A.S.: On ignorable coordinates of conservative and natural systems with	3	339
three degrees of freedom.	5	588
SVESHNIKOVA E.I.: see DVORIANINOV V.G.	6	809

	No.	Page
TEREKI I. and KHATVANI L.: On the partial stability and convergence of motions.	3	311
TERENT'EV E.D.: The linear problem of a vibrator in a subsonic boundary layer.	6	791
TITOVA T.N.: Determination of the normal forms of the Hamiltonian matrices	6	773
TKHAI V.N.: On the problem of stability in the critical case.	3	317
TOKARCHUK V.V.: see GRECHANNYI O.A.	1	85
TOMSKII G.V.: On fixed-duration dynamic games.	2	164
TRET'IAKOV V.E.: see KRASOVSKII A.N.	4	425
TROITSKII V.A.: see SEREGIN G.A.	1	139
TRUSKINOVSKII L.M.: see GOLUBIATNIKOV A.N. TSURKOV V.I.: Expansion in problems of control of systems with equations of the	5	722
parabolic type.	1	101
TSVETKOV Iu.D.: see BYKOVTSEV G.I.	5	700
UKHOBOTOV V.I.: On the construction of a stable bridge in a retention game. UKHOBOTOV V.I.: Construction of a game's value in certain fixed-time differential	2 L	169
games.	6	749
VAKHRAMEEV S.A.: Alternative conditions for the solvability of an encounter-		
evasion differential game. VAKHRAMEEV S.A.: Mixed strategies and their application in encounter-evasion	1	13
differential games.	6	755
VASIL'EV M.M.: On the force acting on a cylinder in a steady stream of viscous fluid at a low Reynolds number.	5	632
VERBITSKII V.G. and LOBAS L.G.: Method of determining singular points and their properties in the problem of plane motion of a wheeled vehicle.	5	710
VOINOV O.V.: Hydrodynamics of the process of foam formation from a viscous fluid		505
with bubbles. VOLKOV S.I.: Example of stochastic bifurcation in the theory of flexure of	4	505
imperfect plates.	5	657
YAHYA H.M.: Qualitative investigations of plane and similar motions of a solid		
about a fixed point.	4	454
ZAVOLZHENSKII M.V.: Wind-induced perturbations of the surface of a viscous fluid.		199
ZAZNOBA V.A.: see ZHDANOV V.M.	6	801
ZELENTSOV V.B.: see ALEKSANDROV V.M.	2	238
ZHDANOV V.M. and ZAZNOBA V.A.: Nonisothermic flow of gas mixture in a channel		_
at intermediate Knudsen numbers.	6	801
ZHELNOROVICH V.A.: Electroelastic waves in polarizing media.	6	854
ZHUK V.I. and RYZHOV O.S.: On the stability of a freely interacting boundary		
layer.	3	403
ZHUPIEV A.L. and MIKHLIN Iu.V.: Stability and branching of normal oscillation	2	200
forms of nonlinear systems.	3	328
ZIGLIN S.L.: Self-intersection of the complex separatrices and the nonexistence of the integrals in the Hamiltonian systems with one-and-half degrees of		
freedom.	3	411
ZINCHENKO A.Z.: Calculation of close interaction between drops, with internal		
circulation and slip effect taken into account.	4	564
ZLATOUSTOV V.A., SAZONOV V.V. and SARYCHEV V.A.: Forced subharmonic oscillations	_	
of the simple pendulum.	1	37