

**AUTHOR/TITLE ALPHABETICAL INDEX**

Vol. 48, 1984

	Issue No.	Page No.
ABRAMOV A.A.: On spatially homogeneous relaxation in the domain of high molecular velocities.	2	233
AKULENKO L.D.: Forced periodic motions of a quasiperiodic systems with a lag.	4	459
AMINOV A.B. and SIRAZETDINOV T.K.: The conditions for even forms to have fixed sign and for the stability as a whole of non-linear homogeneous systems.	3	243
ANDREYEV A.S.: On the asymptotic stability and instability of the zeroth solution of a non-autonomous system.	2	154
ANDREYEV A.S.: On the asymptotic stability and instability of the zero solution of a non-autonomous system with respect to part of the variables.	5	509
ARUTYUNYAN N.KH. and NAUMOV V.E.: The boundary value problem of the theory of viscoelastic plasticity of a growing body subject to aging.	1	1
AZAROVA O.A., KUZNETSOVA I.V. and KHAPAEV M.M.: Investigation of stability in certain problems of non-linear mechanics.	2	151
BERBYUK V.E.: On the controlled rotation of a system of two rigid bodies with elastic elements.	2	164
BETYAEV S.K. and SOLNTSEV I.A.: Evolution of a discontinuity of a vortex sheet.	1	99
BEZHANOV K.A. and TER-KRIKOROV A.M.: Steady multilayer flows of an ideal incompressible fluid over an uneven bottom.	5	542
BLINOV A.P.: A method of estimating the domain of controllability in non-linear systems.	4	419
BOBKOV N.N. and GUPALO YU.P.: The effect of break-up and coalescence of bubbles on mass transfer in a fluidized bed.	5	567
BOLOTIN S.V.: The effect of singularities of the potential energy on the integrability of mechanical systems.	3	255
BORIS A.YU.: Thermophoresis and the interaction of uniformly heated spherical particles in a gas.	2	230
BORODACHEV A.N.: On a method of solving a two-dimensional integral equation of the first kind with a power-law kernel and its application to contact problems.	5	607
BOTKIN N.D., KEIN V.M. and PATSKO V.S.: The model problem of controlling the lateral motion of an aircraft during landing.	4	395
BRATUS A.S. and SEIRANYAN A.P.: Sufficient conditions for an extremum in eigenvalue optimization problems.	4	466
BRUTYAN M.A. and KRAPIVSKII P.L.: The motion of a system of vortex rings in an incompressible fluid.	3	365
BRUTYAN M.A. and KRAPIVSKII P.L.: On the optimal control of viscous incompressible fluid flow.	6	678
BUNOV A.V., DEMEKHIN E.A. and SHKADOV V.YA.: On the non-uniqueness of non-linear wave solutions in a viscous layer.	4	495
BUROV A.A.: On the Lagrange problem of the mean motion of perihelia.	4	480
BUROV A.A. and SUBKHANKULOV G.I.: On the existence of additional integrals of the equations of motion of a magnetizable solid in an ideal fluid, in the presence of a magnetic field.	5	538
BYKOVTSSEV A.S. and TAVBAEV ZH.S.: On a star-like system of propagating dislocation discontinuities.	1	114
CHEREPANOV G.P.: see L.A. KIPNIS.	1	112
CHEREPANOV G.P.: see L.A. KIPNIS.	6	746
CHEREPANOV G.P.: see G.P. NIKISHKOV.	3	332
CHERNYI T.: see A.V. FILIPPOV.	3	286
CHERNYSHEV G.N.: see A.YU. POPOV.	1	107
CHIGAREV A.V.: The standard equation method in the dynamics of structurally inhomogeneous elastic media.	5	594
CHIKRII G.TS.: Search for a fixed target by a moving object.	4	410
CHIZHOV V.E.: see A.M. GOLOVIN.	2	191
CHYONG ZA BIN': see V.V. GOGOSOV.	3	280

	Issue No.	Page No.
DEMEKHIN E.A.: see A.V. BUNOV	4	495
DENISOV G.A.: On the mathematical description of spiral waves in distributed chemical systems.	2	206
DOKSHEVICH A.I.: A class of motions of a top in the Goryachev-Chaplygin case.	6	764
DROZDOV A.D. and KOLMANOVSKII V.B.: An approximate method of optimizing the shape of reinforcement rods in non-uniformly aging materials.	1	33
DROZDOV A.D. and KOLMANOVSKII V.B.: On the stability of inhomogeneously ageing viscoelastic plates.	6	732
EMETS V.F.: The inverse problem of acoustic-wave scattering for thin acoustically rigid bodies.	1	89
ENTOV V.M. and PAN'KO S.V.: Variational formulation of the problem of retained viscoplastic oil.	6	707
ERZHANOV ZH.S. and KALYBAEV A.A.: Comparability of the motion of gravitating systems with respect to its recurrence in time.	2	127
FASTYKOVSKII G.A.: see D.A. KAZENIN.	2	235
FEDUNOV B.E. and KHLEBNIKOV S.N.: Synthesis of the optimal control for a linear system with two phase constraints.	4	413
FILIPPOV A.V. and CHERNYI L.T.: Models of polarizable continua with internal mechanical movements.	3	286
FOKIN A.G.: A method of solving problems of the linear theory of elasticity.	3	315
FOMIN V.M.: Non-stationary dynamical periodic contact problem for a homogeneous elastic half-plane.	2	223
GALANOV B.A.: Spatial contact problems for rough elastic bodies under elastoplastic deformations of the unevenness.	6	750
GERSHBEIN E.A. and YUNITSKII S.A.: On the theory of a three-dimensional, viscous hypersonic shock layer in the neighbourhood of the plane of symmetry.	5	556
GICHEV T.R.: Singular perturbations in a class of problems of optimal control with integral convex criterion.	6	654
GOGOSOV V.V., NALET'OVA V.A., TAKTAROV N.G., CHYONG ZA BIN' and SHAPOSHNIKOVA G.A.: Hydrodynamics of surface phenomena.	3	280
GOLOVIN A.M. and CHIZHOV V.E.: The effective thermal conductivity of a suspension.	2	191
GOLUBKIN V.N.: Hypersonic flow past a delta wing at large angles of attack.	3	270
GOL'DSHTEIN R.V., KAPTSOV A.V. and KOREL'SHTEIN L.B.: Asymptotic solution of three-dimensional problems of the theory of elasticity of extended plane separation cracks.	5	618
GOL'DSHTIK M.A. and YAVORSKII N.I.: The thermal problem for a submerged stream.	6	694
GOMAN O.G.: Representation in terms of $p$ -analytic functions of the general solution of equations of the theory of elasticity of a transversely isotropic body.	1	62
GORR G.V.: see YU.P. VARKHALEV.	3	353
GUPALO YU.P.: see N.N. BOBKOV.	5	567
IRTEGOV V.D.: On the stability of invariant manifolds of mechanical systems.	3	249
IVANOV A.P. and MARKEEV A.P.: The dynamics of systems with unilateral constraints.	4	448
IVANOV A.P.: On the stability of systems with non-retaining constraints.	5	523
KALYBAEV A.A.: see ZH.S. ERZHANOV.	2	127
KAMENIARZH YA.A.: Integral estimate of the pressure in an incompressible medium.	1	81
KANAUN S.K.: On singular models of a thin inclusion in a homogeneous elastic medium.	1	50
KAPTSOV A.V.: see R.V. GOL'DSHTEIN	5	618
KARTVELISHVILI V.M. and KOBELEV V.V.: Rational schemes for reinforcing laminar plates from composite materials.	1	40
KASATKIN G.V.: On the extremality hypothesis of stable resonance motions.	4	489
KAZENIN D.A. and FASTYKOVSKII G.A.: On a selfsimilar solution of the problem of non-linear diffusion kinetics of a topochemical reaction with a surface of variable activity.	2	235

	Issue No.	Page No.
KEIN V.M.: see N.D. BOTKIN.	4	395
KEREKESHA P.V, LEMPER E.I. and MEDEROS O.V.: The first fundamental problem of the theory of elasticity for a symmetric lune.	1	102
KHAIDAROV B.K.: Positional l-capture in the game of a single evader and several pursuers.	4	406
KHAPAEV M.M.: see O.A. AZAROVA.	2	151
KHAZIN L.G.: Interaction of third-order resonances in problems of the stability of Hamiltonian systems.	3	356
KHLEBNIKOV S.N.: see B.E. FEDUNOV.	4	413
KHLUDNEV A.M.: The solution of boundary value problems for the generalized creep equations with conditions in the form of inequalities on the boundary.	1	23
KIPNIS L.A. and CHEREPANOV G.P.: Slip lines at the vertex of a wedge-like cut.	1	112
KIPNIS L.A. and CHEREPANOV G.P.: Contact interaction with friction of two elastic wedge-shaped bodies of different materials.	6	746
KLEIMENOV A.F.: Analysis of a hierarchical two-person differential game.	4	388
KOBELEV V.V.: see V.M. KARTVELISHVILI.	1	40
KOLMANOVSKII V.B.: see A.D. DROZDOV.	1	33
KOLMANOVSKII V.B.: see A.D. DROZDOV.	6	732
KOLOSNITSYN N.I. and STANYUKOVICH K.P.: Relativistic Prandtl-Meyer flow.	1	96
KONDAUROV V.I.: Non-linear equations of the dynamics of an elastic micropolar medium.	3	291
KOPEIKIN YU.D. and SHISHKIN V.P.: Integral form of the general solution of equations of steady-state thermoelasticity.	1	117
KOREL'SHTEIN L.B.: see R.V. GOL'DSHTEIN.	5	618
KOVALENKO E.V.: On an integral equation of contact problems of elasticity theory in the presence of abrasive wear.	5	630
KOVALENKO E.V.: The solution of contact problems of creep theory for combined ageing foundations.	6	739
KOVALEVA A.S.: The application of asymptotic methods to certain stochastic problems of the dynamics of vibropercussive systems.	5	528
KRAPIVSKII P.L.: see M.A. BRUTYAN.	3	365
KRAPIVSKII P.L.: see M.A. BRUTYAN.	6	678
KRASOVSKII N.N.: The problem of control under conditions of incomplete information.	4	375
KRASOVSKII A.N. and TRET'YAKOV V.E.: Stochastic programmed synthesis in a differential game with integral payoff.	6	643
KRUTIN V.N.: see B.R. VAINBERG.	1	58
KRUTIN V.N., MARKOV M.G. and YUMATOV A.YU.: Scattering of a longitudinal wave by a spherical cavity with a fluid in an elastic porous saturated medium.	2	238
KUDISH I.I.: The contact-hydrodynamic problem of lubrication theory for elastic bodies with cracks.	5	578
KUKSIN S.B.: Some mathematical problems of the Batdorf-Budiansky-Malmeister theory of plasticity.	1	18
KULIKOVSKII A.G. and SLOBODKINA F.A.: On the stability of one-dimensional stationary solutions of hyperbolic systems of differential equations containing points at which one characteristic velocity becomes zero.	3	299
KULIKOVSKII A.G. and SVESHNIKOVA E.I.: Some properties of the shock adiabat of quasitransverse elastic waves.	5	575
KUZ'MENKO V.I.: Contact problems of the theory of plasticity for complex loading elastic materials.	3	341
KUZNETSOVA I.V.: see O.A. AZAROVA.	2	151
LEMPER E.I.: see P.V. KEREKESHA.	1	102
LOBAS L.G.: see V.G. VERBITSKII.	3	361
MALOMED B.A. and STAROSEL'SKII I.E.: Weakly supercritical dissipative structures on curved surfaces.	6	688
MANUILOVICH S.V.: On free perturbations in hypersonic laminar flow behind a profile.	5	562
MARKEEV A.P.: On the stability of a solid rotating around the vertical and colliding with a horizontal plane.	3	260
MARKEEV A.P.: see A.P. IVANOV.	4	448
MARKOV M.G.: see V.N. KRUTIN.	2	238

	Issue No.	Page No.
MATROSOV A.A. and USTINOV YU.A.: Homogeneous solutions of the problem of steady vibrations of a piezoceramic cylinder.	6	770
MAZ'YA V.G.: see S.S. ZARGARYAN.	1	120
MEDEROS O.V.: see P.V. KEREKESHA.	1	102
MELIKYAN A.A. and OVSEEVICH A.I.: Hamiltonian systems with a specified invariant manifold and some of their applications.	2	140
MIKHAILOV A.P. and STEPANOVA V.V.: Localization of gas-dynamic processes and structure when the material is compressed adiabatically, in the peaking mode.	6	672
MIKHLIN YU.V.: see A.L. ZHUPIEV.	3	371
MIKHLIN YU.V.: see A.L. ZHUPIEV.	4	486
MINDLIN I.M.: On vorticity-induced waves in a homogeneous incompressible fluid.	5	550
MIRONENKO N.I.: On a periodic mixed problem for a strip.	3	323
MIKHITARYAN S.M.: Spectral relationships for the integral operations generated by a kernel in the form of a Weber-Sonin integral, and their application to contact problems.	1	67
MIKHITARYAN S.M.: A special relationship in spheroidal wave functions and its application to contact problems.	5	611
MOISEENKO S.I.: Stability of the equilibrium of an elastic ring in the presence of radial shear.	1	105
MORDUKHOVICH B.SH.: The theory of duality in systems with aftereffect.	4	440
NABIULLIN M.K.: Stationary motions of a gyrostat with an elastic annular plate and their stability.	5	626
NALET'OVA V.A.: see V.V. GOGOSOV.	3	280
NAUMOV V.E.: see N.KH. ARUTYUNYAN.	1	1
NEISHTADT A.I.: The separation of motions in systems with rapidly rotating phase.	2	133
NEPOMNYASHCHII A.A.: see L.P. VOZVOI.	6	683
NIKISHKOV G.P. and CHEREPANOV G.P.: Extension of an elastic space with an isolated stiff rod.	3	332
NOVIKOV V.G. and TULINOV B.M.: State of stress of a plane with a periodic system longitudinal shear cracks of parallel pairs of	5	638
ONISHCHUK O.V., POPOV G.YA. and PROTSEROV YU.S.: On certain contact problems for reinforced plates.	2	217
OVSEEVICH A.I.: see A.A. MELIKYAN.	2	140
PANASYUK A.I.: The introduction of algebraic operations on the set of trajectories of a non-linear control system.	4	425
PAN'KO S.V.: see V.M. ENTOV.	6	707
PATSKO V.S.: see N.D. BOTKIN.	4	395
PEIGIN S.V.: A three-dimensional hypersonic viscous shock layer in two-phase flow.	2	176
PETUKHOV L.V. and REPIN S.I.: Application of duality methods in problems of optimizing the shape of elastic bodies.	5	600
POBEDRYA B.E.: The deformation theory of plasticity of anisotropic media.	1	10
POKOTILO V.G.: On the study of minimax evaluation of parameters of non-linear systems.	4	435
POPOV A.YU. and CHERNYSHEV G.N.: Effect of a small deviation in the form of the shells of revolution from axial symmetry on their state of stress.	1	107
POPOV G.YA.: see O.V. ONISHCHUK.	2	217
POROSHIN V.S.: The problem of the boundedness of the contact pressures on the outline of an elliptical stamp interacting with an elastic layer.	3	336
POSLAVSKII S.A. and SHIKIN I.S.: A class of exact solutions with a uniform deformation in gas-dynamics.	1	92
PROKUNIN A.N.: On the non-linear Maxwell-type defining equations for describing the motions of polymer liquids.	6	699
PROTSENKO V.S. and SOLOV'EV A.I.: On the joint application of Cartesian and bipolar coordinates to solve boundary value problems of potential theory and elasticity theory.	6	712
PROTSEROV YU.S.: see O.V. ONISHCHUK.	2	217
PUTYATIN B.V.: Exact solution of the heat propagation equations in a radiative medium.	3	369

	Issue No.	Page No.
RAKHULA M.O.: Realization of holonomy in the motion of mechanisms.	4	483
REPIN S.I.: see L.V. PETUKHOV.	5	600
ROGACHEVA N.N.: On Saint-Venant type conditions in the theory of piezoelectric shells.	2	213
ROMENSKAYA G.I. and SUMBATYAN M.A.: An asymptotic approach to the problems of the theory of elasticity of bodies of finite dimensions.	5	585
ROZENBLAT G.M.: On vibrational stabilization of the Lagrange gyroscope.	3	266
RUBANOVSKII V.N.: On the precessional-screw motions of a solid immersed in liquid.	5	532
RUMYANTSEV V.V.: The dynamics of rheonomic Lagrangian systems with constraints.	4	380
RVACHEV V.L. and SHEIKO T.I.: The method of R-functions in computing fields for bodies whose physical characteristics have first-order discontinuities.	5	635
RYCHLEWSKII J.: On Hooke's law.	3	303
SAITBATTALOV A.A.: On the stability of Poincare periodic solutions of Hamiltonian systems.	2	146
SEIRANYAN A.P.: see A.S. BRATUS.	4	466
SEREGIN G.A.: Variational formulations of certain problems of the theory of the flow of rigid-plastic media.	6	728
SHAPOSHNIKOVA G.A.: see V.V. GOGOSOV.	3	280
SHEIKO T.I.: see V.L. RVACHEV.	5	635
SHELUKHIN V.V.: On the structure of generalized solutions of the one-dimensional equations of a polytropic viscous gas.	6	665
SHIKIN I.S.: see S.A. POSLAVSKII.	1	92
SHIRKO I.V.: Non-linear deformations and limit equilibrium of three-dimensional curvilinear rods.	1	27
SHISHKIN V.P.: see YU.D. KOPEIKIN.	1	117
SHKADOV V.YA.: see A.V. BUNOV.	4	495
SILOVANYUK V.P. and STADNIK M.M.: An axisymmetric problem for a layer with a system of thin elastic inclusions.	5	590
SIMONOV I.V.; Transonic flow of an elastic medium past a thin solid.	1	74
SIMONOV I.V.: On the steady motion of a crack with slip and separation sections along the interface of two.	3	347
SIRAZETDINOV T.K.: see A.B. AMINOV.	3	243
SLOBODKINA F.A.: see A.G. KULIKOVSKII.	3	299
SMETANIN B.I. and SOBOL' B.V.: On longitudinal vibrations of the edges of a plane crack in an elastic layer.	4	475
SMETANIN B.I. and SOBOL' B.V.: Equilibrium of an elastic layer weakened by plane cracks.	6	757
SOBOL' B.V.: see B.I. SMETANIN.	4	475
SOBOL' B.V.: see B.I. SMETANIN.	6	757
SOLOMATIN A.M.: A game theoretic approach-evasion problem for a linear system with integral constraints imposed on the player control.	4	401
SOLNTSEV I.A.: see S.K. BETYAEV.	1	99
SOLOV'EV A.I.: see V.S. PROTSENKO.	6	712
STADNIK M.M.: see V.P. SILOVANYUK.	5	590
STANYUKOVICH K.P.: see N.I. KOLOSNIYSYN.	1	96
STAROSEL'SKII I.E.: see B.A. MALOMED.	6	688
STEPANOVA V.V. and A.P. MIKHAILOV.	6	672
STRYGIN V.V.: On a modification of the averaging method for seeking higher approximations.	6	767
SUBKHANKULOV G.I.: see A.A. BUROV.	5	542
SUMBATYAN M.A.: see G.I. ROMENSKAYA.	5	585
SUVOROVA T.V.: Influence of narrow cylindrical cavities on the wave field excited by a concentrated force in an elastic space.	4	499
SVESHNIKOVA E.I.: see A.G. KULIKOVSKII.	5	575
SYCHEV V.V.: On the asymptotic theory of laminar separation on a moving surface.	2	171
TAKTAROV N.G.: see V.V. GOGOSOV.	3	280
TARAPOV I.E.: A variational principle in the hydromechanics of an isotropically magnetizable medium.	3	275
TAVBAEV ZH.S.: see A.S. BYKOVTSSEV.	1	114
TERENT'EV E.G.: The linear problem of a vibrator performing harmonic oscillations at supercritical frequencies in a subsonic boundary layer.	2	184

	Issue	Page
	No.	No.
TER-KRIKOROV A.M.: see K.A. BEZHANOV.	5	542
TIKHONENKO L.YA.: On singularities in the solution of a problem for an elastic half-plane with a rod emerging orthogonally on the boundary.	3	328
TRET'YAKOV V.E.: see A.N. KRASOVSKII.	6	643
TSOPA M.P.: On oscillations of a gyrostat around stable permanent rotations.	4	492
TSYPKIN A.G.: On the definition of variations in the mechanics of continuous media.	6	659
TULINOV B.M.: see V.G. NOVIKOV.	5	638
UKHOBOTOV V.I.: On the problem of terminating a game at the first instance of absorption.	6	650
USTINOV YU.A.: see A.A. MATROSOV.	6	770
VAINBERG B.R. and KRUTIN V.N.: A method of making impedance measurements of the viscoelastic properties of a medium by oscillating plates and shells.	1	58
VAKULENKO A.A.: The possibility of irreversible quasistatic processes in a macrosystem.	4	502
VARKHALEV YU.P. and GORR G.V.: Asymptotically pendulum-like motions of the Hess Appel'rot gyroscope.	3	353
VERBITSKII V.G. and LOBAS L.G.: Domains of attraction in the problem of the plane motion of systems with rolling.	3	361
VERETENNIKOV V.G. and ZAITSEV V.V.: The use of Lyapunov's second method to estimate regions of stability and attraction.	5	514
VIL'KE V.G.: The motion of a heavy symmetrical body with flexible rods about a fixed point.	2	160
VOZOVOI L.P. and MEPOMNYASHCHII A.A.: On the stability of mixed convective motions in a vertical layer with wave-like boundaries.	6	683
YAVORSKII N.I.: see M.A. GOL'DSHTIK.	6	694
YUMATOV A.YU.: see V.N. KRUTIN.	2	238
YUNITSKII S.A.: see E.A. GERSHBEIN.	5	556
ZAITSEV V.V.: see V.G. VERETENNIKOV.	5	514
ZARGARYAN S.S. and MAZ'YA V.G.: The asymptotic form of the solutions of the integral equations of potential theory in the neighbourhood of the corner points of a contour.	1	120
ZELENTSOV V.B.: On the solution of certain integral equations of mixed problems of plate bending theory.	6	721
ZEVIN A.A.: Some conditions for the existence stability of periodic oscillations in non-linear non-autonomous Hamiltonian systems.	4	451
ZHUPIEV A.I. and MIKHLIN YU.V.: On the stability of non-linear stationary waves.	3	371
ZHUPIEV A.L. and MIKHLIN YU.V.: Conditions for finiteness of the number of instability zones in the problem of normal vibrations of non-linear systems.	4	486
ZINCHENKO A.Z.: Effect of hydrodynamic interaction between the particles on the rheological properties of dilute emulsions.	2	198