AUTHOR / TITLE ALPHABETICAL INDEX

Vol.54, 1990

	No.	Page
AGALOVYAN L.A., ASRATYAN M.G. and GEVORKYAN R.S.: The asymptotic solution of problems of the action of a concentrated force and a piecewise-continuous load on a two-layered strip	5	683
AIRAPETOV A.B.: Motion of an initially point vortex in a flow of viscous fluid	3	355
AIZIKOVICH S.M.: An asymptotic solution of a class of coupled equations	5	719
AKULENKO L.D.: Equivalent linearization of quasilinear oscillating systems with slowly varying parameters	5	589
AKULENKO L.D., MIKHAILOV S.A. and NESTEROV S.V.: The oscillations of an oscillator near the interface between two liquids	1	30
ALEKSANDROV V.M. and POZHARSKII D.A.: Some mixed problems of the theory of bending of plates on an elastic foundation	1	64
ALEKSANDROV V.M. and SMETANIN B.I.: Supersonic cleavage of an elastic strip	5	677
AMROMIN E.L., BASIN M.A. and BUSHKOVSKII V.A.: Two solutions of the three-dimensional problem of limit waves on the surface of a ponderable fluid	1	134
AN LE SUAN: The Painlevé paradoxes and the law of motion of mechanical systems with Coulomb friction	4	430
ANDRONOV I.V.: Scattering of a bending wave by a finite rectilinear crack in an elastic plate	2	258
ANDRONOV I.V. and BELINSKII B.P.: On acoustic boundary-contact problems for a vertically stratified medium bounded from above by a plate with concentrated inhomogeneities	3	366
ANTSIFEROV V.S. and ZHELTOV YU.P.: On the deformation of an elastic half-space with a thin slit for mixed conditions on its boundary	6	848
ASRATYAN M.G.: see AGALOVYAN L.A.	5	683
ATANASOV V.A.: The asymptotic stabilizability of positions of relative equilibrium of a satellite-gyrostat	5	708
AVAKYAN V.A. and SMIRNOV L.P.: A generalized Faxen formula for various forms of boundary conditions	2	281
AVDEYEV P.A.: On the stability of the stationary front of an exothermic reaction in a condensed phase	6	804
AZIZOV A.G.: Motion of controllable mechanical systems with servo-constraints	3	302
BAIDOSOV V.A.: Fuzzy differential inclusions	1	8
BARMIN A.A. and SHCHELKACHEV M.V.: The analysis of the stability of shock waves	5	725
BASIN M.A.: see AMROMIN E.L.	1	134
BASMAT A.S. and GUZ A.N.: Interaction of an unsteady-state wave with a rigid sphere immersed in a compressible viscous fluid	2	196
BELIKOV S.A.: The local boundedness of the perturbed motions of a gyroscope in gimbals with dissipative and accelerating forces	6	787
BELINSKII B.P.: see ANDRONOV I.V.	3	366
BELOUSOV A.A. and CHIKRII A.A.: Complete conflict controllability of quasi-linear processes	6	735
BERESLAVSKII E.N.: The construction of the constant-velocity contour of a foundation of a hydraulic installation in the case of the filtration of two liquids of different density	2	285
BERESLAVSKII E.N.: The intake of purified fresh water with filtration from a reservoir	5	714
BERMUS I.M. and SRUBSHCHIK L.S.: Non-axisymmetric buckling of shallow spherical shells	3	375
BERSHADSKII A.G.: A special case of hydrodynamic stability	4	562
BLEKHMAN I.I. and MALAKHOVA O.Z.: Extremal criteria of the stability of certain motions	1	115
BOBKOV N.N. and GUPALO YU.P.: A model of a non-homogeneous pseudofluidized layer with particle exchange between the non-homogeneity and the layer	5	646
BOLOTIN S.V.: Motions doubly asymptotic to invariant tori in the theory of perturbed Hamiltonian systems	3	412
BORODACHEV A.N.: A method of constructing weighting functions for a circular crack	6	841
BORODACHEV A.N.: On a class of exact solutions of a non-axisymmetric contact problem for an inhomogeneous elastic half-space	2	242

	No.	Page
BORSHCH S.P., POPOV A.L. and CHERNYSHEV G.N.: Method of extracting singularities in the problem of the hydroelastic vibrations of a shell excited by concentrated forces	4	512
BRITOV N.A.: Stokes approximation for two-dimensional inductionless magnetohydrodynamic flows	5	641
BROVKO G.L.: Material and spatial representations of the constitutive relations of deformable media	5	668
BUROV A.A. and KARAPETYAN A.V.: The existence and stability of invariant sets of dynamical systems	6	744
BUSHKOVSKII V.A.: see AMROMIN E.L.	1	134
BUZHINSKII V.A.: Vortex drag of a plate during vibrations in a slightly viscous fluid	2	191
BYKOVTSEV A.V.: On the plastic loading process behind an unloading shock front	3	402
CHASHECHKIN YU.D.: see KISTOVICH A.V.	4	565
CHAU LE KHAN: Variational principles of non-linear theory of brittle fracture	4	543
CHEBAKOV M.I.: see KOVALENKO E.V.	5	688
CHERNOUS'KO F.L.: Decomposition and suboptimal control in dynamical systems	6	727
CHERNOUS'KO F.L.: see PIVOVAROV M.L.	2	164
CHERNYSHEV G.N.: see BORSHCH S.P.	4	512
CHIGAREV A.V.: The method of averaging in dynamic problems of the theory of the elasticity of structurally inhomogeneous media	2	211
CHIKRII A.A.: see BELOUSOV A.A.	6	735
DEREVICH I.V. and ZAICHIK L.I.: An equation for the probability density, velocity, and temperature of particles in a turbulent flow modelled by a random Gaussian field	5	631
DEVYATKIN E.A. and SIMONOV I.V.: The theory of the fracture of a superconductor in a magnetic field	4	538
DINARIYEV O.YU.: The velocity of propagation of a signal in a fluid with relaxation	1	46
DOMBROVSKII G.A.: Integration of the equations of plane stationary non-linear filtration	4	497
DUDNIK R.A., MAKEYEVA E.A. and FIYAKSEL E.A.: On the influence of inhomogeneities on the vibrations of a cylindrical shell	4	508
DUNIN S.Z. and MAKSIMOV G.A.: Pulse propagation in media with small velocity dispersion and relaxation time spectrum of the form $1/\varphi$. Exact solution	3	397
ELIZAROV A.M. and FEDOROV E.V.: Airfoil optimization by the method of inverse boundary-value problems	4	473
FEDOROV E.V.: see ELIZAROV A.M.	4	473
FEDUNOV B.E.: Maximally fast braking of an object in controlled motion, under the action of aerodynamic drag and gravity	5	605
FEL'DE E.A.: see SVIRKUNOV P.N.	2	278
FILONENKO L.A.: see ZEVIN A.A.	6	776
FIYAKSEL E.A.: see DUDNIK R.A.	4	508
FLITMAN L.M.: Separation-free flow around a blunt body by a high-velocity elastic-plastic flow	4	531
FONAREV A.A.: On seeking buckling modes of a circular plate	1	60
FORTOV V.E.: see NI A.L.	4	554
FURTA S.D.: The dynamic stability of an elastic column	6	769
GETMAN I.P. and USTINOV YU.A.: Wave propagation in an elastic longitudinally inhomogeneous cylinder	1	83
GEVORKYAN R.S.: see AGALOVYAN L.A.	5	683
GLAZUNOVA N.A. and STEPANYANTS YU.A.: Estimates of the parameters of increasing perturbations in shear flows of an inhomogeneous magnetized plasma	2	289
GLUSHKOV E.V. and GLUSHKOVA N.V.: Determination of the dynamic contact stiffness of an elastic layer	3	393
GLUSHKOVA N.V.: see GLUSHKOV E.V.	3	393
GORDEYEV YU.N.: The selfsimilar dynamic problem of a hydraulic crack when its sides interact with a cleaving gas flow	4	549
GORSHKOV A.G., RACHINSKII YU.V. and TARLAKOVSKII D.V.: Non-steady waves in an acoustic medium with boundaries shaped like a parabolic cylinder	2	219

	No.	Page
GRISHIN V.A., POPOV G.YA. and REUT V.V.: Analysis of box-like shells of rectangular cross-section	4	501
GUBAREV YU.G.: On the converse Lagrange theorem in magnetohydrodynamics	6	812
GUPALO YU.P.: see BOBKOV N.N.	5	646
GUZ A.N.: see BASMAT A.S.	2	196
IVANOV A.G.: The controllability of a non-linear system in a class of generalized controls	5	612
KADASHEVICH YU.I. and MOSOLOV A.B.: The relationship between the endochronic theory of plasticity and the "new" measure of internal time	4	571
KALAMKAROV A.L, KUDRIAVTSEV B.A. and PARTON V.Z.: The boundary-layer method in the fracture mechanics of composites of periodic structure	2	266
KAN V.L. and KEL'ZON A.S.: Stability and controllability in proportional navigation	3	309
KANDOBA I.N.: On a method of solving a shape optimization problem in elasticity theory	3	421
KAPLAN L.E.: The selfconsistent problem of the vibrations of an infinite string loaded with a moving point mass	4	444
KAPTSOV O.V.: New solutions of two-dimensional stationary Euler equations	3	337
KARAPETYAN A.V.: see BUROV A.A.	6	744
KEL'ZON A.S.: see KAN V.L.	3	309
KEL'ZON A.S. and KOVAL A.A.: Stability of a horizontal rotor in flexible rolling bearings with clearances	1	19
KERCHMAN V.I.: Problems in the spreading and extrusion of a layer of non-linearly viscous fluid	2	204
KIM A.V., KOROTKII A.I. and OSIPOV YU.S.: Inverse problems in the dynamics of parabolic systems	5	619
KIRPICHNIKOV S.N. and STEPANOV A.G.: The possibility of structurally stable global oscillators occurring when dissipative forces and introduced into dynamic systems asymptotically stable in the large.	2	275
KISTOVICH A.V. and CHASHECHKIN YU.D.: The formation of zero frequency internal waves during free convection in a temperature-stratified liquid	4	565
KLEIMENOV A.F.: Cooperative solutions in a many-person positional differential game with continuous payment functions	3	321
KOBELEV V.V.: Fragmentation of a composite material and fragmentation of fibres under a dynamic load	4	577
KOLMANOVSKII V.B. and SPIVAK A.K.: Control of the speed of response of predator-prey systems	3	417
KORBICH YU.S., MAKSIMOV V.I. and OSIPOV YU.S: Dynamic simulation of controls in certain parabolic systems	3	293
KOROTKII A.I.: see KIM A.V.	5	619
KOVAL A.A.: see KEL'ZON A.S.	1	19
KOVALENKO E.V.: On the analysis of thin porous coatings	3	388
KOVALENKO E.V., TARASOV D.G. and CHEBAKOV M.I.: Exact solution of the antiplane contact problem for finite canonical domains	5	688
KOVALEVA A.S.: Separation of motions in non-linear oscillatory systems with random perturbations	4	438
KOZLOV V.V. and NEISHTADT A.I.: On the realization of holonomic constraints	5	705
KRIVONOS I.YU., POKOTILO V.G. and PSHENICHNYI B.N.: Optimization of the observation process	3	317
KUDRIAVTSEV B.A.: see KALAMKAROV A.L.	2	266
KUDRYASHOV N.A.: Exact solutions of the non-linear wave equations arising in mechanics	3	372
KULIKOVSKII A.G. and PEKUROVSKAYA L.A.: Longitudinal waves in an elastic medium with a piecewise-linear dependence of the stress on the strain	5	663
KUZNETSOV N.G.: A variational method of determining the eigenfrequencies of a liquid in a channel	4	458
LATYSHEV A.V.: The use of Case's method to solve the linearized BGK equations for the temperature-jump problem	4	480
LEBEDEV D.V.: Control of the motion of a solid rotating about its centre of mass	1	13
LEBEDEV D.V.: Stabilization of the motion of a dynamic system under conditions of uncertainty	6	794

	No.	Page
LEONOV G.A.: The orbital stability of the trajectories of dynamic systems	4	425
LESHCHENKO D.D. and SALLAM S.N.: Perturbed rotational motions of a rigid body similar to regular precession	2	183
LIFSHITZ YU.B.: see VELICHKO S.A.	3	359
LIKHACHEV V.N.: Diffraction of a short acoustic wave by a smooth body with a discontinuity in the radius of curvature of its surface	4	465
LIN'KOV A.M. and MOGILEVSKAYA S.G.: Hypersingular integrals in plane problems of the theory of elasticity	1	93
LOKSHIN A.A. and SAGOMONYAN E.A.: The propagation of a weak discontinuity in a non-linear medium with rigid unloading	4	569
LOKSHIN M.D.: Differential games with integral constraints on disturbances	3	331
MAKEYEVA E.A.: see DUDNIK R.A.	4	508
MAKSIMOV G.A.: see DUNIN S.Z.	3	397
MAKSIMOV V.I.: see KORBICH YU.S.	3	293
MALAKHOVA O.Z.: see BLEKHMAN I.I.	1	115
MAMEDOV YU.M.: The construction of reciprocity and integral representation formulas of the general solution for quasistatic and dynamic problems of uncoupled generalized thermoelasticity	6	815
MANZHIROV A.V.: The torsion of a growing cylinder by a rigid stamp	5	692
MARKEYEV A.P.: Resonances and asymptotic trajectories in Hamiltonian systems	2	169
MARKHASHOW L.M.: The motion of a material point in Friedmann-Lobachevsky space	6	761
MELESHKO S.V.: Triple-wave potential flows of a polytropic gas	5	637
MELIKYAN A.A.: The problem of time-optimal control with search for a target point	1	1
MIKHAILOV S.A.: see AKULENKO L.D.	1	30
MIRENKOVA G.N. and SOSNINA E.G.: A hollow ellipsoidal needle in an orthotropic elastic medium	6	837
MISYURA V.A.: An inequality in the theory of a semilinear elastic body	5	699
MOGILEVSKAYA S.G.: see LIN'KOV A.M.	1	93
MORAR G.A. and POPOV G.YA.: Construction of discontinuous solutions in three-dimensional elasticity theory	5	656
MOSHCHUK N.K. and SINITSYN I.N.: On stochastic non-holonomic systems	2	174
MOSOLOV A.B.: see KADASHEVICH YU.I.	4	571
MOVCHAN N.V. and NAZAROV S.A.: On the state of stress and strain near cone apices	2	231
NAKHMEIN E.L. and NULLER B.M.: Dynamic contact problems for an orthotropic elastic half-plane and a composite plane	4	523
NAZAROV S.A.: see MOVCHAN N.V.	2	231
NAZAROV S.A. and POLYAKOVA O.R.: Stress intensity factors for parallel cracks lying close together in a plane region	1	107
NEISHTADT A.I.: see KOZLOV V.V.	5	705
NEPOMNYASHCHII A.A. and SIMANOVSKII I.B.: Long-wave thermocapillary convection in layers with deformable interfaces	4	490
NESTOROV S.V.: see AKULENKO L.D.	1	30
NI A.L. and FORTOV V.E.: The equations of motion of condensed media with continually kinetic fracture	4	554
NIKOLAYEV A.G. and PROTSENKO V.S.: First and second fundamental axisymmetric problems of elasticity theory for doubly-connected domains bounded by the surfaces of a sphere and a spheroid	1	51
NULLER B.M.: Contact problems for systems of elastic half-planes	2	249
NULLER B.M.: see NAKHMEIN E.L.	4	523
OKHEZIN S.P.: An approximation in the problem of controlling the shape of the region for a parabolic system	3	298
OREKHOV V.I.: Steady motions and integral manifolds of systems with quadratic integrals	6	751
OSIPOV YU.S.: see KIM A.V.	5	619
OSIPOV YU.S.: see KORBICH YU.S.	3	293

	No.	Page
PAIMUSHIN V.N.: A version of a refined non-linear theory of thin elastic sandwich shells of iteration type	1	69
PANFEROV I.V.: Stresses in elastic conical tubes of transversely-isotropic materials with spherical anisotropies under temperature and force loadings	6	832
PARTON V.Z.: see KALAMKAROV A.L.	2	266
PASHKOV A.G.: Estimate of the guaranteed value in a non-linear differential game of approach	5	624
PEKUROVSKAYA L.A.: see KULIKOVSKII A.G.	5	663
PETUKHOV L.V. and SOKOV K.E.: Inhomogeneous elastic structures optimal in stiffness	2	226
PIVOVAROV M.L. and CHERNOUS'KO F.L.: Oscillations of a rigid body with a toroidal cavity filled with a viscous liquid	2	164
POKOTILO V.G.: see KRIVONOS I.YU.	3	317
POLYAKOVA O.R.: see NAZAROV S.A.	1	107
POPOV A.L.: see BORSHCH S.P.	4	512
POPOV G.YA.: see GRISHIN V.A.	4	501
POPOV G.YA.: see MORAR G.A.	5	656
POZHARSKII D.A.: see ALEKSANDROV V.M.	1	64
PROTSENKO V.S.: see NIKOLAYEV A.G.	1	51
PSHENICHNYI B.N.: see KRIVONOS I.YU.	3	317
PURO A.E.: On the construction of general solutions of the theory of the elasticity of inhomogeneous solids	6	855
PUSTYL'NIKOV L.D.: On certain final motions in the n-body problem	2	272
RACHINSKII YU.V.: see GORSHKOV A.G.	2	219
REUT V.V.: see GRISHIN V.A.	4	501
ROGACHEVA N.N.: Refined membrane theory of electroelastic shells	4	518
ROSSIKHIN YU.A. and SHITIKOVA M.V.: Non-linear free spatial vibrations of combined suspension systems	6	825
RUMYANTSEV V.V.: see VLADIMIROV V.A.	2	154
RVACHEV M.A.: On statically possible fields in a simply connected volume	1	143
RYLOV A.I.: On the impossibility of regular reflection of a steady-state shock wave from the axis of symmetry	2	200
SAGOMONYAN E.A.: see LOKSHIN A.A.	4	569
SALLAM S.N.: see LESHCHENKO D.D.	2	183
SANNIKOV V.F.: Exact solutions of the linear problem of the steady-state waves created by a dipole in a flow of a stratified fluid	6	799
SAZONOV V.V.: The dependence of the solutions of the equations of motion of mechanical systems on a large parameter	5	583
SAZONOV V.V. and SIDORENKO V.V.: The perturbed motions of a solid close to regular Lagrangian precessions	6	781
SEDOV L.I.: Some remarks on the relativistic concepts of velocities and accelerations	2	147
SEKERZH-ZEN'KOVICH S.YA.: The free oscillations of a viscous two-layer fluid in a closed vessel	1	39
SHCHELKACHEV M.V.: see BARMIN A.A.	5	725
SHITIKOVA M.V.: see ROSSIKHIN YU.A.	6	825
SIDORENKO V.V.: see SAZONOV V.V.	6	781
SIL'VESTROV V.V.: On the stress-strain state near a three-dimensional crack in a two-sheeted surface	1	99
SIMANOVSKII I.B.: see NEPOMNYASHCHII A.A.	4	490
SIMONOV I.V.: see DEVYATKIN E.A.	4	538
SINITSYN I.N.: see MOSHCHUK N.K.	2	174
SINITSYN V.A.: The principle of least constraint for systems with non-restoring constraints	6	756
SKOBELEV B.YU.: An invariant finite-dimensional approximation to the Navier-Stokes equations and selfexcited oscillatory modes of Poiseuille flow	3	343
SMETANIN B.I.: see ALEKSANDROV V.M.	5	677
SMIRNOV L.P.: see AVAKYAN V.A.	2	281
SOKOLOV B.N.: Bounds on control in the linear dynamic optimization problem with a quadratic functional	4	559
SOKOLOV V.N.: The minimum dimensions of the control vector in the linear dynamic problem of stabilization	5	711
SOKOV K.E.: see PETUKHOV L.V.	2	226

	No.	Page
SOSNINA E.G.: see MIRENKOVA G.N.	6	837
SPIVAK A.K.: see KOLMANOVSKII V.B.	3	417
SRUBSHCHIK L.S.: see BERMUS I.M.	3	375
STEPANOV A.G.: see KIRPICHNIKOV S.N.	2	275
STEPANYANTS YU.A.: see GLAZUNOVA N.A.	2	289
SUMBATYAN M.A.: The plane contact problem for an elastic layer for high vibration frequencies	2	253
SVIRKUNOV P.N. and FEL'DE E.A.: The selfsimilar asymptotic form of non-stationary vortex flows	2	278
TALYBLY L.KH.: Deformation of a viscoelastic cylinder fastened to a housing under non-isothermal dynamic loading	1	74
TARAKANOV V.I.: Lower estimates of the characteristic frequencies of the oscillations of a liquid with a free surface in channels of arbitrary cross-section	1	137
TARASOV D.G.: see KOVALENKO E.V.	5	688
TARLAKOVSKII D.V.: see GORSHKOV A.G.	2	219
TER-KRIKOROV A.M.: Stratified flows and dipole approximations	4	485
TKACHEV A.M.: A geometrical method of solving the problem of maximizing the norm of the state vector of the system in a finite control interval	6	852
USTINOV YU.A.: see GETMAN I.P.	1	83
VELICHKO S.A. and LIFSHITZ YU.B.: Computation of attached flow past an airfoil profile at high Reynolds numbers	3	359
VLADIMIROV V.A. and RUMYANTSEV V.V.: Inversion of Lagrange's theorem for a rigid body with a cavity containing a viscous liquid	2	154
VOROTNIKOV V.I.: Optimal stabilization of motion with respect to some of the variables	5	597
YAVORSKII N.I.: Asymptotic laminar wakes	4	449
YURKO V.A.: A problem in elasticity theory	6	820
ZAICHIK L.I.: see DEREVICH I.V.	5	631
ZARKH M.A.: A universal second-player strategy in a linear differential game	3	326
ZEKOVIĆ D.: The brachistochrone motion of a mechanical system with non-holonomic, non-linear and non-stationary constraints	6	765
ZEVIN A.A. and FILONENKO L.A.: Forced oscillations of a non-linear system with a repulsive positional force	6	776
ZHARII O.YU.: The eigenfunction expansion method in dynamic electroelasticity problems	1	88
ZHELTOV YU.P.: see ANTSIFEROV V.S.	6	848
ZHITNIKOV V.P.: Flow of a plane jet of liquid from a reservoir with flexible walls near a screen	1	25