

EQUADIFF 3

List of communications presented in sections

In: Miloš Ráb and Jaromír Vosmanský (eds.): Proceedings of Equadiff III, 3rd Czechoslovak Conference on Differential Equations and Their Applications. Brno, Czechoslovakia, August 28 - September 1, 1972. Univ. J. E. Purkyně - Přírodovědecká fakulta, Brno, 1973. Folia Facultatis Scientiarum Naturalium Universitatis Purkynianae Brunensis. Seria Monographia, Tomus I. pp. 279--282.

Persistent URL: <http://dml.cz/dmlcz/700091>

Terms of use:

© Masaryk University, 1973

Institute of Mathematics of the Academy of Sciences of the Czech Republic provides access to digitized documents strictly for personal use. Each copy of any part of this document must contain these *Terms of use*.



This paper has been digitized, optimized for electronic delivery and stamped with digital signature within the project *DML-CZ: The Czech Digital Mathematics Library* <http://project.dml.cz>

LIST OF COMMUNICATIONS PRESENTED IN SECTIONS:

A. Ordinary differential equations:

- AL-BASSAM M. A. On some differential and integro-differential equations associated with Jacobi's differential equation
- BAJAJ P. On products of semi-dynamical systems
- BAJNOV D. O primenenii metoda usrednenija k odnoj dvukhtočečnoj kraevoj zadače dlja system integro-diff. uravnenij tipa Volterra ne razrešennykh otnositelno proizvodnoj (*delivered by Miluševa*)
- BARVÍNEK E. Algebraic aspects of linear differential transformations
- BEBERNES J. W., SCHMITT K. An existence theorem for systems of second-order periodic boundary value problems
- BRJUNO A. Lokalnyj metod v nelinejnykh rezonansakh
- BUREAU F. Intégration d'équations différentielles du second ordre
- BUTLER G. The existence of periodic solutions of a nonlinear autonomous equation
- CELLINA A. Existence and non-existence of solutions of differential equations in Banach spaces
- CODDINGTON E. Eigenfunction expansions for non-densely defined ordinary differential operators
- CORDUNEANU A. Sur la propriété minimale de $\overline{R(A)}$ pour un opérateur monotone et application à une équation différentielle
- ČANTURIJA T. Ob asimptotičeskom predstavlenii rešenij uravnenija tipa Jemdena—Faulera
- DJAJA C. Kvazi-počti rekurentnyje dviženija i traektorii dinamičeskikh sistem
- DOČEV D., BAJNOV D., PANTELEEV D. Periodičeskie kolebanija kvazilinejnykh neavtonomnykh sistem s zapazdyvaniem v slučae trekhkratnykh kornej amplitudnykh uravnenij (*delivered by Panteleev*)
- DRAGIEVA N., BAJNOV D. Metod asimptotičeskogo integririvanja sistem integro-differencialnykh uravnenij s malym parametrom v slučae nesozmerimnykh častot poroždajuščej sistemy
- ELBERT A. Sturm-Liouville differential equations with concave coefficients
- GIERTZ M., EVERITT W. N. Some Dirichlet integral results for ordinary differential expressions
- GROSSMAN S. I. Asymptotic behavior of linear integrodifferential systems
- HABETS P. The consistency problem of singularly perturbed differential equations
- HÁČIK M. Contribution to the monotonicity of zero points of integrals of the differential equation $y'' + q(t)y = 0$
- HEIL E. Geometrisches zur Hill'schen Differentialgleichung
- KONSTANTINOV M., BAJNOV D. Suščestvovanie i edinstvennost' rešenij nekotorykh èkstremaIno-differencialnykh sistem sverkhnejtraInogo tipa (*delivered by Miluševa*)
- LAITICH M. Beitrag zur Theorie des Phasen
- LONDEN S. O. On a nonlinear Volterra equation
- MARIČ V. Asymptotic solutions to nonlinear equations of the first order
- MARUŠIAK P. Oscillation behavior of solutions of even order delay differential equations
- MIKULÍK Z. Die konjugierten Punkte und Brennpunkte der selbstadjungierten Differentialgleichung dritter Ordnung
- MILUŠEVA S. Obosnovanie metoda usrednenija dlja odnogo klassa integro-differencialnykh uravnenij
- MORAVČÍK J. Ob uslovijakh privodimosti linejnykh differencialnykh uravnenij n-togo porjadka
- MOSZYŃSKI K. Quelques remarques sur les systèmes infinis des équations différentielles

- MULECON M., LORCH L., SZIGO P. Higher monotonicity properties of certain Sturm-Liouville functions
- MULDOWNEY J. An intermediate value property for operators with applications to differential equations
- PANTELEEV D., BAJNOV D. Ustojčivost periodičeskikh rešenij kvazilinejnoj avtonomnoj sistemy s zapazdyvanijem v slučae trekhkratnykh kornej amplitudnykh uravnenij
- RAHMI A. K. The resonance case in linear differential equations
- REICH L. Über die Abschätzung des Wachstumsordnung in der Fuchsschen Theorie
- SCHMITT B. An index useful for the research of periodic solutions of periodic second-order differential equations
- SCHWABÍK Š. Systeme mit unstetigen Lösungen
- STACH K. Die Kummerschen Transformationen zwei-dimensionaler Räume
- STOYANOV J., BAJNOV D. Metod usrednenija dlja stokhastičeskikh integro-diferencialnykh uravnenij (*delivered by Miluševa*)
- TVRDÝ M. General boundary value problems for linear ordinary differential equations
- VILLARI G. Concerning existence of periodic solutions for differential equations
- VOSMANSKÝ J. Some higher monotonicity properties of i -th derivatives of solutions of $y'' + a(t)y' + b(t)y = 0$
- WALTER J. Continuity of the essential spectrum of Sturm-Liouville operators

B. Partial differential equations:

- ADLER G. A method for obtaining uniform pointwise bounds for solutions of elliptic equations of order $2m$
- ANGER G. Inverse Probleme des Potentialtheorie (Geophysik)
- AXELSSON O. On iterative methods for elliptic problems
- BALABAN T. Mixed boundary-value problems for hyperbolic equations
- BOJARSKI B. Nonlinear equations and quasiconformal mappings
- CATTABRIGA L. On the fundamental solution of partial differential equations
- DOKTOR P. Some reports between conjugated harmonic functions
- DŽAFAROV A. S. O. Teoremy vloženija dlja klassov funkcij, javljajuščikhsja počti-periodičeskimi otnositelno časti peremennykh i ikh primenenie
- FENYÖ I. On the differential equation $\sum_{r=0}^n c_r(pD_1 + qD_2)^r u = 0$
- GAJEWSKI H. Über eine Approximationsmethode für nichtlineare Evolutionsgleichungen
- JARNÍK J. Exponential boundedness of solutions of parabolic-difference-differential equations
- JOHN O. On the regularity of solutions of nonlinear elliptic equations
- KAČUR J. Method of Rothe and nonlinear parabolic boundary value problems of arbitrary order
- KATKOV V., KOSTJUKOVA N., Nakhoždenie invariantno-gruppovykh rešenij s pomošč'ju ĖVM
- KISYŇSKI J.
- KLUGE R. Iterationsverfahren bei Folgen nichtlinearer Variationsungleichungen
- KOPÁČEK J. On L_p -estimates for hyperbolic systems
- KOPÁČKOVÁ M. On some equations from mathematical physics
- KUČERA M. Fredholm alternative for nonlinear operators
- LANGENBACH A. Implicit functions and differential equations
- MARCINKOWSKA H. Elliptic boundary value problems with distributional data
- MAWHIN J. A generalized topological degree and its applications to nonlinear operator and differential equations
- MAZJA V. Ob elliptičeskoj zadače s kosoj proizvodnoj v oblasti s kusočno-gladkoj granicej

MUSZYŃSKI J. Povedenie rešenij nekotoroj smešannoj zadači s nelinejnymi graničnymi uslovijami
MÜLLER—PFEIFFER E. Spektrale Eigenschaften elliptischer Differentialoperatoren
PAGANI C. D. On parabolic equations of the forward-backward type
PŘÍHODA J. Spektrafnyj radius i metod SOR
RADOCHOVÁ V. Das Iterationsverfahren für eine partielle Differentialgleichung vierter Ordnung
ROACH G. F. Dirichlet-Neumann problem for general elliptic equations
ROJTBURG J. A., ŠEFTEL Z. G. O nekotorykh nelokaľnykh èllyptičeskikh zadačakh
RUS J. A. Some fixed points theorems in matric spaces
SOUČEK V. New versions of Morse-Sard theorem
STARÁ J., JOHN O. Regularity of the weak solution of nonlinear elliptic equation
SULEJMANOV D. H., GASANOV K. K. O rešenii smešannoj zadači dlja odnogo klasa sistem uravnenij
vysšego porjadka s nelinejnoj častju
SZARSKI J. Uniqueness of solutions for parabolic differential-functional equations
ŠEFTEL Z. G. see ROJTBURG J. A
ŠTĚDRÝ M. Nonlinear vibrations of a seam
TRIEBEL H. Interpolation spaces and singular elliptic differential operators
TUTSCHKE W. Topologische Methoden in der Theorie vollständiger partieller komplexer Differential-
gleichungssysteme in mehreren Komplexen variablen
von WAHL W. A priori estimates for linear and quasilinear parabolic equations
WARNECKE G. On a theorem of Harnack type
ZACHARIAS K., GAJEWSKI H. Einige Klassen nichtlinearer Differentialgleichungen im Hilbertraum

C. Numerical methods and applications

BURDA P., LELEK V. Zametka k stabiľnosti rešenija mnogogruppyvnykh uravnenij teorii reaktorov
po otnošeniju k graničnym uslovijam
ČERMÁK J. On the use of Galerkin's method for solving nuclear reactor equations on diffusion
approximation
DANEŠ J. Fixed point and surjectivity theorems for densifying mappings. Applications to integral
equations of Hammerstein's type
DONEVSKI B., BAJNOV D. Issledovanie n-konturnykh LC-generatorov s nelinejnym zadajuščim
konturom
FREHSE J. Error estimates for elliptic difference equations by Morrey space methods
HADELER K. P. Some mathematical models in biology
HUŤA A. Remarks for construction of Runge-Kutta formulas of the n-th order
CHANDRA J., DAVIS P. W. Approximating periodic solutions of equations with bounded nonlinear-
ities
KAFKA J. Magnetic field in iron—an example of a parabolic-type boundary value problem
KODNÁR R. Ob odnoj sisteme nelinejnykh uravnenij
KOLOMÝ J. Some surjectivity and fixed-point theorems
KUBÍČEK M. A note on numerical methods for solutions of nonlinear boundary value problem
depending on an actual parameter
LAMBERT J. D. Numerical methods for the solution of stiff systems of ordinary differential equations
LANCASTER P. L-splines for constant coefficient differential operators
LELEK V., WIESNER J. On mutual relation among the characteristics of the inverse scattering theory
LINDBERG B. The implicit midpoint rule—a method for stiff differential equations
MAKAI E. On the three body problem in quantum mechanics
MIKLOŠKO J. Some problems with numerical computation of three- and pentadiagonal system, of
linear equations and three- and five-term recurrence relations

- MILOTA J. Interpolation in a Banach space
- MOUSSIAUX A., RONVEAUX A. Application de la méthode de Riemann à l'étude des ondes progressives dans une étoile construite sur le modèle de Roche généralisé
- NASHED M. Z. Convergence rates for approximate solutions of boundary value problems and linear operator equations
- NEDOMA J., MAREK I. Application of the finite element method to the solution of Helmholtz equations describing the seismic wave field of SH-waves
- PRÁGER M. On an approximation principle and its application to nonconformal elements
- REKTORYS K. Application of the Ritz method to the solution of parabolic boundary value problems of arbitrary order in the space variables (*delivered by Hlaváček*)
- RŮŽIČKOVÁ H. Finite difference method for a boundary value problem of the 4th order
- SADOVSKÝ Z. Numerical solutions of some nonlinear stability problems of thin rectangular plates
- SEGÉTH K. Universal approximation by hill functions
- SCHOMBURG U. Finite element techniques for approximate solutions satisfying prescribed inhomogeneous boundary conditions exactly
- SKOKAN V. The stabilization of some stochastic systems
- SOBOLEVSKIJ P. E. O koercitivnoj razrešimosti raznostnykh uravnenij
- STOPP F. Modelle der Bodenrheologie
- ŠLAHOR L. On the solution of the problem $u''' = f(x, u, u', u'')$, $u(a_1) = u(a_2) = u(a_3) = 0$ by using quasilinearization
- VEIDINGER L. On the order of convergence of the finite element method
- ZEZULA R. On some nonlinear regulation problems of reactor physics