

C O N T E N T S

W.Alt and M.Dembo:

- A contraction-disassembly model for intracellular acting gels..... 1

A.Ambrosetti:

- Differential equations with multiple solutions and nonlinear functional analysis..... 10

J.Appel:

- Genaue Fixpunktsätze und nichtlineare Sturm-Liouville Probleme..... 38

O.Arino and I. Györi:

- Asymptotic integration of functional differential systems which are asymptotically autonomous..... 43

B.Aulbach:

- Approach to hyperbolic manifolds of stationary solutions..... 56

L.Barbanti:

- Linear Volterra-Stieltjes integral equations and control..... 67

M.Bardi:

- Exchange of stability along a branch of periodic solutions of a single species model..... 73

V.Benci,A.Capozzi and D.Fortunato:

- On asymptotically quadratic Hamiltonian system..... 83

W.J.Beyn:

- Numerical analysis of singularities in a diffusion reaction model.. 93

M.A.Boudourides:

- Hyperbolic Lipschitz homeomorphisms and flows..... 101

T.Bruigarino, A.Canino and P.Pantano:

- Some evolution equations arising in physics..... 107

A.Cañada and P.Martinez-Amores:

- Periodic solutions of neutral functional differential equations.. 115

A.Capozzi:

- On subquadratic not-autonomous Hamiltonian systems..... 122

A.Capozi and A.Salvatore:

- A note on a class of autonomous Hamiltonian systems with strong resonance at infinity..... 132

C.Dafermos:

- Stabilizing effects of dissipation..... 140

E.De Pascale and R.Iannacci:

- Periodic solutions of generalized Lienard equations with delay.. 148

A.L.Edelson and J.D.Schuur:

- Asymptotic and strong asymptotic equivalence to polynomials for solutions of nonlinear differential equations..... 157

H.Engler:

- On some parabolic integro-differential equations: existence and asymptotics of solutions..... 161

L.H.Erbe:

- Oscillation and nonoscillation properties for second order nonlinear differential equations..... 168

B.Fiedler:

- Global Hopf bifurcation in porous catalysts..... 177

D.Flockerzi:

- Weakly nonlinear systems and bifurcation of higher dimensional tori..... 185

T.Furumochi:

- Periodic solutions of functional differential equations..... 194

J.Grasman:

- Subharmonic and chaotic solutions of the forced van der Pol relaxation oscillator..... 201

T.Hagemann and T.Naito:

- Functional differential equations with infinite delay on the space C_Y 207

U.Halbach:

- Deterministic and stochastic models for the dynamics of animal populations..... 215

Y.Hino:

- Stability properties for functional differential equations with infinite delay..... 246

F.C.Hoppensteadt:

- An averaging method for Volterra integral equations with applications to phase-locked feedback systems..... 256

F.A.Howes:

- The asymptotic analysis of boundary value problems by the method of order reduction..... 266

J.Ize:

- An obstruction approach to multiparameter Hopf bifurcation..... 272

F.Kappel:

- Finite dimensional approximation to systems with infinite dimensional state space..... 287

J.Kato:

- Asymptotic behavior in functional differential equations with infinite delay..... 300

E.Kaumann and U.Staude:

- Uniqueness and nonexistence of limit cycles for the Fitzhugh equation..... 313

B.Kawohl and R.Rühl:

- Periodic solutions of nonlinear heat equations under discontinuous boundary conditions..... 322

K.Kirchgässner:

- Homoclinic bifurcation of perturbed reversible systems..... 328

J.Kurzweil and A.Vencovská:

- On linear differential equations with almost periodic coefficients and the property that the unit sphere is invariant..... 364

N.A.Lar'kin:

- On some classes of nonlinear hyperbolic equations..... 369

A.Lasota:

- Statistical stability of deterministic systems..... 386

W.Liniger:

- Recent developments in stability and error analysis of numerical methods for ordinary differential equations..... 420

J.Lorenz:

- Numerical solution of a singular perturbation problem with turning points..... 432

J.Cl.Louis:

Stability in Hilbert spaces by using the Riccati equation..... 440

P.Marcati:Stability analysis of abstract hyperbolic equations using
families of Liapunov functions..... 446M.Medved:On codimension three bifurcations of a family of three -
dimensional vector fields..... 453P.van Moerbeke:

The complete integrability of Hamiltonian systems..... 462

A.Narain and D.D.Joseph:Linearized dynamics of shearing deformation perturbing rest
in viscoelastic materials..... 476A.Pazy:

Semigroups of operators in Banach spaces..... 508

C.Pöppel:A new method for constructing solutions of the Sine-Gordon
equation..... 525R.Riganti:Periodic solutions of a class of semilinear, stochastic differen-
tial equations with random coefficients..... 533D.Salomon:

A duality principle for neutral functional differential equations.. 543

D.Saupe:Characterization of periodic solutions of special differential
delay equations..... 553G.Seifert:Uniform stability of almost periodic solutions of delay-
differential equations..... 563G.R.Sell:Vector fields in the vicinity of a compact invariant
manifold..... 568C.A.Stuart:

Bifurcation from the essential spectrum..... 575

M.Svec:

Some properties of nonlinear differential equations with
quasiderivates 597

H.R.Thieme:

Global asymptotic stability in epidemic models..... 608

A.Vanderbauwhede:

Bifurcation at multiple eigenvalues for equivariant mappings... 616

J.Vegas:

Linear stability of bifurcating branches of equilibria..... 625

H.Weber:

Efficient computation of stable bifurcating branches of
nonlinear eigenvalue problems..... 632

W.Wedig:

Covariance analysis of distributed systems under stochastic
point forces..... 641

M.Willem:

Subharmonic oscillations of nonlinear systems..... 661