Faculty Research for 2006

1. S.A. Avdonin and Boris P. Belinskiy. On controllability of a rotating string. J. of Mathematical Analysis and Applications, 321(1):198–212, 2006.
2. Miroslav Bartušek and John R. Graef. Asymptotic properties of solutions of a forced second order differential equation with p-laplacian. PanAmerican Mathematical Journal, 16:41–59, 2006.
3. Boris P. Belinskiy, John R. Graef, and R. E. Melnik. The stability of a wing in a flow. Neural, Parallel & Scientific Computations, 14:75–96, 2006.
4. B. C. Dhage and John R. Graef. Monotone technique for first order discontinuous functional differential inclusions. Communications in Applied Analysis, 10:137–146, 2006.
5. B. C. Dhage, John R. Graef, and B. D. Karande. A functional integro-differential equation in banach algebras involving discontinuous nonlinearities. International Journal of Differential Equations and Applications, 10:55–73, 2006.
6. Lynn Erbe, Lingju Kong, and Qingkai Kong. A telescoping principle for oscillation of second order differential equations on a time scale. Rocky Mountain Journal of Mathematics, 36(1):149–181, 2006.
7. John R. Graef and M. Bartušek. The strong limit–point property for Emden-Fowler equations. Differential Equations and Dynamical Systems, 14:383–405, 2006.
8. John R. Graef and M. Bartušek. The strong nonlinear limit-point/limit-circle properties for sub-half-linear equations. Dynamic Systems and Applications, 15:585–602, 2006.
9. John R. Graef, J. Henderson, and B. Yang. Positive solutions of a nonlinear n-th order eigenvalue problem. Dynamics of Continuous, Discrete and Impulsive Systems Series A, Mathematical Analysis, Supplementary Volume, 13B:39–48, 2006.
10. John R. Graef and Lingju Kong. Solutions of multi-point boundary value problems of the second order. Proceedings of Neural, Parallel and Scientific Computations, 3:68–72, 2006.
11. John R. Graef and A. Ouahab. Some existence results for impulsive dynamic equations on time scales with integral boundary conditions. Discrete and Impulsive Systems Series A, Mathematical Analysis, Supplementary Volume, 13B:11–24, 2006.
12. John R. Graef and Abdelghani Ouahab. Global existence results for impulsive functional dynamic inclusions on time scales in fréchet spaces. Communications on Applied Nonlinear Analysis, 13:59–81, 2006.
13. John R. Graef and Abdelghani Ouahab. Some existence and uniqueness results for first order boundary value problems for impulsive functional differential equations with

infinite delay in fréchet spaces. International Journal of Mathematics and Mathematical Sciences, 2006:Article ID 31256, 16 pages, 2006.

14. John R. Graef and Chuanxi Qian. Global attractivity in a nonlinear difference equation and its applications. Dynamic Systems and Applications, 15:89–96, 2006.

15. John R. Graef and Bo Yang. Positive solutions of a nonlinear third order eigenvalue problem. Dynamic Systems and Applications, 15:97–110, 2006.

16. John R. Graef and Bo Yang. Positive solutions to a multi-point higher order boundary value problem. Journal of Mathematical Analysis and Applications, 316:409–421, 2006.

17. Charles R. Johnson and Ronald L. Smith. Closure of matrix classes under schur complementation, including singularities. Algebra and Its Applications, D. V. Huynh, S. K. Jain, S. R. Lopez-Permouth, eds., Contemporary Mathematics, AMS, 419:185–200, 2006.

18. Marc Loizeaux and Lucas van der Merwe. A total domination vertex critical graph with diameter two. Bulletin of the Institute of Combinatorics and its Applications, 48:63–65, 2006.

19. P.A. Gremaud, J. Matthews, and D.G. Schaeffer. On the Computation of Steady Hopper Flows III: Model Comparisons, J. Comp. Phys., 219 (2006), p.443 – 454.