

Recent Papers Presented at Professional Meetings:

Existence of solutions for boundary value problems of a sixth order differential equation, with B. Yang, presented at the Twenty-fourth Annual Meeting of the Society for Industrial and Applied Mathematics Southeastern Atlantic Section, held at the University of Georgia, Athens, Georgia, March 24–25, 2000.

Some integrability properties of solutions of nonlinear third order differential equations, with M. Bartušek, an invited address presented in the Special Session “Differential Inequalities and Applications,” at the 953rd Meeting of the American Mathematical Society, held at Notre Dame University, Notre Dame, Indiana, April 8–9, 2000.

Some limit-point/limit-circle results for third order differential equations, with M. Bartušek, presented at the Year 2000 International Conference on Dynamical Systems and Differential Equations, held at Kennesaw State University, Kennesaw, Georgia, May 18–21, 2000.

Oscillation and nonoscillation in a nonlinear impulsive system with increasing energy, with J. Karsai, presented at the Year 2000 International Conference on Dynamical Systems and Differential Equations, held at Kennesaw State University, Kennesaw, Georgia, May 18–21, 2000.

On the oscillation of some nonlinear second order systems with impulsive damping, with J. Karsai, presented at the Colloquium on Differential and Difference Equations, held at Masaryk University, Brno, Czech Republic, September 5–8, 2000.

Some results on the asymptotic decay of nonoscillatory solutions of general nonlinear difference equations, with E. Thandapani and S. L. Marian, presented at the Twentieth Annual Southeastern–Atlantic Regional Conference on Differential Equations held at Virginia Polytechnic Institute and State University, Blacksburg, Virginia, October 20–21, 2000.

Positive solutions of a class of neutral difference equations, with C. Qian and B. Yang, an invited address presented in the Special Session “Asymptotic Behavior of Difference Equations with Applications,” at the 107th Annual Meeting of the American Mathematical Society, in New Orleans, Louisiana, January 10–13, 2001.

Classification of positive solutions of neutral difference equations, with C. Qian and B. Yang, presented at the Fifth Mississippi State Conference on Differential Equations and Computational Simulations, held at Mississippi State University, Mississippi State, Mississippi, May 18–19, 2001.

Positive solutions of a third order neutral delay differential equation, with C. Qian and B. Yang, presented at the Fifth Mississippi State Conference on Differential Equations and Computational Simulations, held at Mississippi State University, Mississippi State, Mississippi, May 18–19, 2001.

On the asymptotic behavior of the solutions of non-halflinear impulsive systems, with J. Karsai, Presented at the Workshop on Analysis, held in Budapest, Hun-

gary, on June 30 - July 1, 2001.

Some boundary value problems for nonlinear differential equations of the fourth order, with C. Qian and B. Yang, an invited address presented in the Special Session “Asymptotic Behavior of Solutions of Differential and Difference Equations,” at the 970th Meeting of the American Mathematical Society, held at the University of Tennessee at Chattanooga, Chattanooga, Tennessee, October 5–6, 2001.

Multiple symmetric positive solutions of a class of boundary value problems for higher order ordinary differential equations, with C. Qian and B. Yang, presented at the 108th Annual Meeting of the American Mathematical Society, held in San Diego, California, January 6–9, 2002.

On the classification of positive solutions of a higher order neutral differential equation, with C. Qian and B. Yang, an invited address presented in the Special Session “Dynamic Equations on Time Scales,” at the 975th Meeting of the American Mathematical Society, held at the Georgia Institute of Technology, Atlanta, Georgia, March 8–10, 2002.

Oscillatory properties of third order neutral delay differential equations, with R. Savithri and E. Thandapani, an invited address presented in the Special Session “Difference Equations and its Applications,” at the Fourth International Conference on Dynamical Systems and Differential Equations, held at the University of North Carolina at Wilmington, Wilmington, North Carolina, May 24–27, 2002.

On the oscillation of impulsive neutral delay equations, with J. H. Shen and I. P. Stavroulakis, an invited address presented in the Special Session “Mathematical Analysis and Applications,” at the Second International Conference on Neural, Parallel and Scientific Computations, held at Morehouse College, Atlanta, Georgia, August 7–10, 2002.

Nonlinear damping in oscillator equations, with J. Karsai and C. Qian, presented at the “Colloquium on Differential and Difference Equations,” held in Brno, Czech Republic, September 4–6, 2002.

Positive solutions to boundary value problems for ordinary differential equations, an invited plenary lecture presented at the “Colloquium on Differential and Difference Equations,” held in Brno, Czech Republic, September 4–6, 2002.

Comparison results for higher order nonlinear delay difference equations, with A. Miciano-Cariño, and C. Qian, presented in the “Special Session Honoring Professor Don Hinton,” at the Twenty-Second Annual Southeastern–Atlantic Regional Conference on Differential Equations held at the University of Tennessee at Knoxville, Knoxville, Tennessee, October 11–12, 2002.

Oscillation of second order linear and half-linear difference equations with a forcing term, with O. Došlý and J. Jaroš, presented in the Special Session “Discrete Dynamics and Difference Equations,” at the 109th Annual Meeting of the American Mathematical Society, held in Baltimore, Maryland, January 15–18, 2003.

Positive solutions of a three point boundary value problem for nonlinear differen-

tial equations, an invited plenary lecture presented at the Fourth International Conference on Dynamic Systems and Applications, held at Morehouse College, Atlanta, Georgia, May 21–24, 2003.

Oscillation of first order neutral delay differential equations, with R. Savithri and E. Thandapani, presented at the Seventh Colloquium on the Qualitative Theory of Differential Equations, held at the Bolyai Institute of Mathematics of the University of Szeged, Szeged, Hungary, July 14–18, 2003.

Multiple positive solutions of a boundary value problem for ordinary differential equations, an invited plenary lecture presented at the Seventh Colloquium on the Qualitative Theory of Differential Equations, held at the Bolyai Institute of Mathematics of the University of Szeged, Szeged, Hungary, July 14–18, 2003.

On the asymptotic behavior of the solutions of systems with nonlinear damping, with J. Karsai, presented at the Seventh Colloquium on the Qualitative Theory of Differential Equations, held at the Bolyai Institute of Mathematics of the University of Szeged, Szeged, Hungary, July 14–18, 2003.

An existence result for a first order impulsive functional differential inclusion with variable times, with M. Benchohra and A. Ouahabi, presented at the Twenty–Third Annual Southeastern–Atlantic Regional Conference on Differential Equations, held at Kennesaw State University, Kennesaw, Georgia, October 17–18, 2003.

Positive solutions of a third order boundary value problem, with C. Qian and B. Yang, presented at the Twenty–Third Annual Southeastern–Atlantic Regional Conference on Differential Equations, held at Kennesaw State University, Kennesaw, Georgia, October 17–18, 2003.

Some new oscillation results for a class of neutral difference equations, with S. Elizabeth, P. Sundaram, and E. Thandapani, presented in the Special Session “Discrete Dynamics and Difference Equations,” at the 110th Annual Meeting of the American Mathematical Society, held in Phoenix, Arizona, January 7–10, 2004.

Some new limit-point/limit-circle results for Emden-Fowler equations, with M. Bartušek, an invited address presented in the Special Session “New Trends in the Analysis and Computation of Differential and Difference Equations,” at the Fifth International Conference on Dynamical Systems and Differential Equations, held at California State Polytechnic University, Pomona, California, June 16–19, 2004.

Computer experiments and results for the behavior of oscillatory systems with nonlinearities in the damping, with J. Karsai, presented at the Fifth International Conference on Dynamical Systems and Differential Equations, held at California State Polytechnic University, Pomona, California, June 16–19, 2004.

Positive solutions of nonlinear third order boundary value problems, with B. Yang, an invited address presented in the Special Session “Topological Methods for Boundary Value Problems,” at the Fifth International Conference on Dynamical Systems and Differential Equations, held at California State Polytechnic University, Pomona, California, June 16–19, 2004.

Some new existence and nonexistence results for positive solutions of third order nonlinear boundary value problems, with B. Yang, presented at the 999th Meeting of the American Mathematical Society, held at Vanderbilt University, Nashville, Tennessee, October 16–17, 2004.

Nonlinear limit–point/limit–circle results for second order equations with p -Laplacian, with M. Bartušek, presented at the Twenty–Fourth Annual Southeastern–Atlantic Regional Conference on Differential Equations, held at the University of Tennessee at Chattanooga, Chattanooga, Tennessee, October 22–23, 2004.

Positive solutions to a multipoint higher order boundary value problem, with B. Yang, presented at the Twenty–Fourth Annual Southeastern–Atlantic Regional Conference on Differential Equations, held at the University of Tennessee at Chattanooga, Chattanooga, Tennessee, October 22–23, 2004.

Nonlinear limit–point/limit–circle results for half–linear equations, with M. Bartušek, presented at the 111th Annual Meeting of the American Mathematical Society, held in Atlanta, Georgia, January 5–8, 2005.

Existence and nonexistence of positive solutions to a multi-point boundary value problem, with B. Yang, presented at the Sixth Mississippi State - UAB Conference on Differential Equations and Computational Simulations, held at Mississippi State University, Mississippi State, Mississippi, May 13–14, 2005.

On the stability of a wing in a flow: a nonlinear Sturm-Liouville problem, with B. Belinskiy, presented at the Sixth Mississippi State - UAB Conference on Differential Equations and Computational Simulations, held at Mississippi State University, Mississippi State, Mississippi, May 13–14, 2005.

Attractivity results for nonlinearly damped second order oscillator equations, with J. Karsai, presented at EQUADIFF 11, International Conference on Differential Equations, held at Comenius University, Bratislava, Slovakia, July 25–29, 2005.

Positive solutions of a nonlinear n -th order eigenvalue problem, with J. Henderson and B. Yang, an invited address presented in the Special Session “Recent Advances in the Theory and Applications of Differential Equations,” at the International Workshop on Differential Equations and Dynamical Systems, held at the University of Guelph, Guelph, Ontario, Canada, on July 29–31, 2005.

Some existence results for impulsive dynamic equations on time scales with integral boundary conditions, with A. Ouahab, an invited address presented in the Special Session “Qualitative Theory of Functional Equations,” at the International Workshop on Differential Equations and Dynamical Systems, held at the University of Guelph, Guelph, Ontario, Canada, on July 29–31, 2005.

On the connection between a nonlinear Sturm-Liouville problem and a quasi-KdV equation, with B. P. Belinskiy, an invited address presented in the Special Session “Mathematical Aspects of Wave Propagation Phenomena,” at the 1010th Meeting of the American Mathematical Society, held at East Tennessee State University, Johnson City, Tennessee, October 15–16, 2005.

Positive solutions of a nonlinear fourth order boundary value problem, with B.

Yang, an invited address presented in the Special Session “Boundary Value Problems for Ordinary Differential Equations,” at the 112th Annual Meeting of the American Mathematical Society, held in San Antonio, Texas, January 12–15, 2006.

Existence of solutions for nonlinear boundary value problems, with L. Kong, an invited address presented in the Special Session “Boundary Value Problems for Ordinary Differential Equations,” at the 112th Annual Meeting of the American Mathematical Society, held in San Antonio, Texas, January 12–15, 2006.

Positive solutions of a third order nonlocal boundary value problem, with B. Yang, an invited address presented in the Special Session “Topological Methods for Boundary Value Problems,” at the Sixth AIMS International Conference on Dynamical Systems, Differential Equations, and Applications, held at the University of Poitiers, Poitiers, France, June 25–28, 2006.

Solutions of multi-point boundary value problems of the second order, with L. Kong, an invited address presented in the Special Session “Differential Equations and Computations,” at the Third International Conference on Neural, Parallel and Scientific Computations, held at Morehouse College, Atlanta, Georgia, August 9–12, 2006.

The stability of a wing in a flow, with B. Belinskiy and R. E. Melnik, an invited plenary lecture presented at the Third International Conference on Neural, Parallel and Scientific Computations, held at Morehouse College, Atlanta, Georgia, August 9–12, 2006.

Modeling a wing in an air flow, with B. Belinskiy and R. E. Melnik, an invited plenary lecture presented at CDDE 2006, the “Colloquium on Differential and Difference Equations,” held in Brno, Czech Republic, September 5–8, 2006.

A nonlinear Sturm–Picone comparison theorem for dynamic equations on time scales, with B. Belinskiy and S. Petrović, an invited address presented in the Special Session “Time Scales: Dynamic Equations with Applications,” at the 113th Annual Meeting of the American Mathematical Society, held in New Orleans, Louisiana, January 5–8, 2007.

Existence results for nonlinear periodic boundary value problems, with L. Kong, an invited address presented in the “Workshop on Topological Methods for Boundary Value Problems” at the Fifth International Conference on Dynamic Systems and Applications, held at Morehouse College, Atlanta, Georgia, May 31–June 2, 2007.

Existence and nonexistence of positive solutions of an n -th order nonlocal boundary value problem, with J. Henderson and B. Yang, an invited plenary lecture presented at the Fifth International Conference on Dynamic Systems and Applications, held at Morehouse College, Atlanta, Georgia, May 31–June 2, 2007.

Existence and nonexistence of positive solutions of a nonlinear third order boundary value problem, with B. Yang, an invited lecture presented at the Eighth Colloquium on the Qualitative Theory of Differential Equations, held at the Bolyai Institute of Mathematics of the University of Szeged, Szeged, Hungary, June 25–28, 2007.

A formula for success: Mathematics Department + Teacher Preparation Academy = B.S. with a double major, with D. McAllister and B. Warren-Kring, presented at the conference “Institutional Change in Teacher Education,” the Third Annual Meeting of the Teachers for a New Era Learning Network, in Denver, Colorado, October 29–31, 2007.

Math matters: results that add up for teachers and students, with D. McAllister and B. Warren-Kring, presented at the conference “Institutional Change in Teacher Education,” the Third Annual Meeting of the Teachers for a New Era Learning Network, in Denver, Colorado, October 29–31, 2007.

Existence of positive and negative solutions of a nonlinear periodic boundary value problem, with L. Kong, presented at the Seventh Mississippi State - UAB Conference on Differential Equations and Computational Simulations, held at the University of Alabama in Birmingham, Birmingham, Alabama, November 1–3, 2007.

Solutions of higher order boundary value problems, with L. Kong and Q. Kong, presented at the Seventh Mississippi State - UAB Conference on Differential Equations and Computational Simulations, held at the University of Alabama in Birmingham, Birmingham, Alabama, November 1–3, 2007.

Positive solutions to a fourth order three point boundary value problem, with J. Henderson and B. Yang, an invited address presented in the Special Session “Topological Methods for Boundary Value Problems,” at the Seventh AIMS International Conference on Dynamical Systems, Differential Equations, and Applications, held at the University of Texas at Arlington, Arlington, Texas, May 18–21, 2008.

Positive solutions of a nonlinear higher order three point boundary value problem, with L. Kong and B. Yang, an invited address presented in the Special Session “Topological Methods for Boundary Value Problems,” at the Seventh AIMS International Conference on Dynamical Systems, Differential Equations, and Applications, held at the University of Texas at Arlington, Arlington, Texas, May 18–21, 2008.

Existence of positive solutions of a higher order nonlocal singular boundary value problem, with J. Henderson and B. Yang, an invited address presented in the Special Session “Nonlinear Boundary Value Problems,” at the Sixth International Conference on Differential Equations and Dynamical Systems, held at Morgan State University Baltimore, Maryland, May 22–26, 2008.