John Bryce McLeod Bibliography

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- (1) (With T.W. Chaundy) On a functional equation, Quart. J. Math (2) 9 (1958), Oxford, 202-206.
- (2) On the commutator subring, *Quart. J. Math.* (2) **9** (1958), Oxford, 207-209.
- (3) Two expressions for the distribution of eigenvalues, Proc. Edin. Math. Soc A 249 (1959), 513-517.
- (4) On four inequalities in symmetric functions, *Proc. Edin. Math. Soc.* (II) **11** (1959), 211-219.
- (5) (With E.C. Titchmarsh) On the asymptotic distribution of eigenvalues, *Quart. J. Math.* (2) **10** (1959), Oxford, 313-320.
- (6) On certain integral formulae, *Proc. London Math.* Soc (3) **11** (1961), 134-138.
- (7) The distribution of the eigenvalues for the hydrogen atom and similar cases, *Proc. London Math.* Soc. (3) **11** (1961), 139-158.
- (8) (With T.W. Chaundy) On a functional equation, Notes pp.7-8, Proc. Edin. Math. Soc. (II) 12 (1960).
- (9) The determination of phase shift, *Quart. J. Math.* (2) 12 (1961), Oxford, 17-32.
- (10) The determination of the transmission coefficient, Quart. J. Math. 12 (1961), Oxford, 153-158.
- (11) On an integral in the distribution of eigenvalues, *Proc. Edin. Math. Soc.* II 12 (1961), 205-208.
- (12) Eigenfunction expansions associated with a complex differential operator of the second order, *Quart. J. Math.* 2 (1961), Oxford, 291-303.
- (13) Convergence of eigenfunction expansions under Fourier conditions (I) *Proc. London Math. Soc.* (3) **12** (1961), 144-166.
- (14) Convergence of eigenfunction expansions under Fourier conditions (II), *Proc. London Math. Soc.* (3) **12** (1962), 167-178.
- (15) On an infinite set of non-linear differential equations, *Quart. J. Math.* 13 (1962), Oxford (2), 119-128.
- (16) Square-integrable solutions of a second-order differential equation with complex coefficients, *Quart. J. Math* **13** (1962), Oxford (2), 129-133.
- (17) On an infinite set of non-linear differential equations (II), Quart. J. Math. 13 (1962), Oxford (2), 193-205.
- (18) On a recurrence formula in differential equations, Quart. J. Math 13 (1962), Oxford (2), 283-284.
- (19) On the *H* ion, *Quart. J. Math* 14 (1963), Oxford (2), 65-79.
- (20) (With T.W. Chaundy) Eigenvalues in problems with spherical symmetry and an associated integral, *Quart. J. Math* 14 (1963), Oxford (2), 205-212.
- (21) On the scalar transport equation, *Proc. London Math.* Soc. (3) **14** (1964), 445-458.
- (22) On the spectrum of wildly oscillating functions, *J. London Math. Soc.* 39 (1964), 623-234.
- (23) On the continuous spectra of small potentials, Quart. J. Math 16 (1965), Oxford (2), 85-95.
- (24) On the continuous spectra of large negative potentials, Quart. J. Math 16 (1965), Oxford (2), 233-240.
- (25) On the spectrum of wildly oscillating functions (II), J. London Math. Soc. 40 (1965), 655-661.
- (26) On the spectrum of wildly oscillating functions (III), J. London Math. Soc. 40 (1965), 662-666.
- On the distribution of eigenvalues for an *n*-th order equation, *Quart. J. Math* **17** (1966), Oxford (2), 112-131.
- (28) The number of integrable-square solutions of ordinary differential equations, *Quart. J. Math.* 17 (1966), Oxford (2), 285-290.
- (29) Spectral concentration I- the one-dimensional Schrodinger operator, in *Perturbation Theory and its Applications in Quantum Mechanics*, Wiley, 1966, pp. 119-127.
- (30) (With C.L. Dolph & D. Thoe) The analytic continuation of the resolvent kernel and scattering operator associated with the Schrodinger operator, *J. Math. Anal. Appl.* **16** (1966), 311-332.
- (31) The analytic continuation of the Green's function associated with obstacle scattering, *Quart. J. Math* **18** (1967), Oxford (2), 169-180.
- (32) The analytic continuation to the unphysical sheet of the resolvent kernel as sociated with the Schrodinger operator, *Quart. J. Math.* 18 (1967), Oxford (2), 219-231.
- (33) (With R.S.B. Ong) The relaxation to equilibrium of a dilute electron plasma, *J. Mathematical Physics* 8 (1967), 240-247.
- (34) Some examples of wildly oscillating potentials, J. London Math. Soc 43 (1968), 647-654.
- (35) (With J. Serrin) The behavior of similar solutions in a compressible boundary layer, *J. Fluid Mech.* 34 (1968), 337-342.
- (36) (With J. Serrin) The existence of similar solutions for some laminar boundary layer problems, *Arch. Rat. Mech. Anal.* **31** (1968), 288-303.
- (37) Von Karman's swirling flow problem, Arch. Rat. Mech. Anal. 33 (1969), 91-102.
- (38) The asymptotic form of solutions of von Karman's swirling flow problem, *Quart. J. Math.* **20** (1969), Oxford (2), 483-496.
- (39) A note on rotationally symmetric flow above an infinite rotating disc, *Mathematika* 17 (1970), 243-249.
- (40) The spectra of step-function potentials, in Mathematical Essays dedicated to A.J. · Macintyre, *Ohio University Press*, 1970, pp. 289-298.
- (41) A note on the e-algorithm, Computing 7 (1971), 17-24.
- (42) The existence of axially symmetric flow above a rotating disk, *Proc. Royal Soc.* A. 324 (1971), 391-414.

- (43) (With T. Kato) The functional-differential equation y1(x) = ay(Vx) + by(x), Bull. Amer. Math. Soc. 77 (1971), 891-937.
- (44) Existence and uniqueness of similarity solutions at a free stream line, *Quart. J. Math.* **23** (1972), Oxford (2), 63-77.
- (45) (With H. Chang & A.S. Lodge) On the stability of elongational flow of visco-elastic liquids, I, MRC Technical Summary Report #1246, Mathematics Research Center, University of Wisconsin-Madison, 1972.
- (46) The functional-differential equation y1 (x) = ay(Vx) + by(x) and generalizations, in Proceedings of a Conference on the Theory of Ordinary and Partial Differential Equations, Springer-Verlag Lecture Notes 280, 1972, pp. 308-313.
- (47) The uniqueness of solutions for some non-linear boundary-value problems with turning points, *Quart. J. Math* **24** (1973), Oxford (2), 265-271.
- (48) (With D.H. Sattinger) Loss of stability and bifurcation at a double eigenvalue, *J. Funct. Anal.* **14** (1973), 62-84.
- (49) (With W.N. Everitt & M. Giertz) On the strong and weak limit-point classification of second-order differential expressions, *Proc. London Math. Soc.* (3) **29** (1974), 142-158.
- (50) (With S.V. Parter) On the flow between two counter-rotating infinite plane disks, *Arch.Rat. Mech. Anal.* **54** (1974), 301-327.
- Over-determined systems and the rectilinear steady flow of simple fluids, in Pro- ceedings of a Conference on Ordinary and Partial Differential Equations, vol. 414, Springer-Verlag Lecture Notes, 1974, pp. 193-204.
- (52) Swirling flow, in Proceedings of a Symposium on Spectral Theory and Differential Equations, vol. 448, Springer-Verlag Lecture Notes, 1975, pp. 242-255.
- (53) (With P.C. Fife) The approach of solutions of nonlinear diffusion equations to travelling wave solutions, *Bull. Amer. Math.* Soc. **81** (1975), 1076-1078.
- (54) (With M.S.P. Eastham & W.D. Evans) The essential self-adjointness of Schrodinger-type operators, *Arch. Rat. Mech. Anal.* **60** (1976), 185-204.
- (55) (With N.W. Bazley) Bifurcation from infinity and singular eigenvalue problems, *Proc. London Math. Soc.* (3) **34** (1977), 231-244.
- (56) (With S.V. Parter) The non-monotonicity of solutions in swirling flow, *Proc. Royal Soc. Edin.* A 76 (1977), 161-182.
- (57) (With F.V. Atkinson & M.S.P. Eastham) The limit-point, limit-circle nature of rapidly oscillating potentials, *Proc. Royal Soc. Edin.* A 76 (1977), 183-196.
- (58) (With R.E.L. Turner) Bifurcation for nondifferentiable operators with an application to elasticity, *Arch. Rat. Mech. Anal.* **63** (1977), 1-45.
- (59) (With M.S.P. Eastham) The existence of eigenvalues embedded in the continuous spectrum of ordinary differential operators, *Proc. Royal Soc.* Edin. A **79** (1977), 25-34.
- (60) (With P.C. Fife) The approach of solutions of nonlinear diffusion equations to travelling front solutions, *Arch. Rat. Mech. Analy* **65** (1977), 335-361.
- (61) The existence of a non-negative solution of an ordinary differential equation arising in electromagnetic theory, *J. Nonlinear Anal.* 1 (1977), 679-689.
- (62) (With A.S. Lodge & J.A. Nohel) A nonlinear sing1tlarly perturbed Volterra integrodifferential equation occurring in polymer rheology, *Proc. Royal Soc.* Edin. A 80(1978), 99-137.
- (63) (With C.A. Stuart) Nonlinear Sturm-Liouville problems with no secondary bifurcation, *Proc. Royal Soc.* Edin. A 80 (1978), 347-356.
- (64) (With S. P. Hastings) A boundary value problem associated with the second Painleve transcendent and the Korteweg-de Vries equation, *Arch. Rat. Mech. Anal.* 73 (1980), 31-51.
- (65) (With P.C. Fife) A phase plane discussion of convergence to travelling fronts for nonlinear diffusion, *Arch. Rat. Mech. Anal.* 75 (1981), 281-314.
- (66) (With P.A. Clarkson) A connection formula for the second Painleve transcendent, in Proceedings of a Conference on Ordinary and Partial Differential Equations, vol. 964, *Springer-Verlag Lecture Notes*, 1982, pp. 135-142.
- (67) (With P.A. Clarkson) A note on solutions of Painleve II, *Physics Letters* 92 A, No 9 (1982), 425-426.
- (68) (With P.J. Oliver) The connection between partial differential equations soluble by in-verse scattering and ordinary differential equations of Painlevé type, SIAM J. Math. Anal. 14 (1983), 488-506.
- (69) The rate of decay of solitary waves of finite amplitude, Applicable Anal. 17(1983), 37-50.
- (70) The Foude number for solitary waves, *Proc. Royal Soc.* Edin A 97 (1984), 193-197.
- (71) (With A. Friedman) Blow-up of positive solutions of semilinear heat equations, *Indiana U. Math. J.* 34 (1985), 425-447.
- (72) (With S.P. Hastings) The number of Solutions of an equation from catalysis, *Proc. Royal Soc.* Edin. A 101 (1985), 15-30.
- (73) (With P.A. Clarkson, P.J. Olver & A. Ramani) Integrability of Klein-Gordon equations, *SIAM J. Math. Anal.* 17 (1986), 798-802.

- (74) (With A. Friedman) Strict inequalities for integrals of decreasingly rearranged functions, *Proc. Royal Soc.* Edin. A 102 (1986), 277-289.
- (75) (With G. Caginalp) The interior transition layer for an ordinary differential equation arising from solidification theory, *Ouart. Appl. Math.* 44 (1986), 155-168.
- (76) (With A.D. Cocker & A. Friedman) A variational inequality associated with liquid on a soap film, *Arch. Rat. Mech. Anal.* 93 (1986), 15-44.
- (77) (With A. Friedman) Blow-up of solutions of nonlinear degenerate parabolic equations, *Arch. Rat. Mech. Anal.* 96 (1986), 55-80.
- (78) The asymptotic behavior near the crest of waves of extreme form, *Trans. Amer. Math. Soc.* 2999 (1987), 299-302.
- (79) (With K.R. Rajagopal) On the uniqueness of flow of a Navier-Stokes fluid due to a stretching boundary, *Arch. Rat. Mech. Anal.* 98 (1987), 385-393.
- (80) (With A. Friedman) Optimal design of an optical lens, Arch. Rat. Mech. Anal. 99 (1987), 147-164.
- (81) (With A. Friedman) An optical lens for focusing two pairs of points, Arch. Rat. Mech. Anal. 101 (1988), 57-83.
- (82) (With K.B. McLeod) The critical Sobolev exponent in two dimensions, Proc. Royal Soc. Edin. A 109 (1988), 1-15.
- (83) (With A. Friedman & J. Friedman) Concavity of solutions of nonlinear ordinary differential equations, J. Math. Anal. Appl. **131**, (1988), 486-500.
- (84) (With P.A. Clarkson) A connection problem for the second Pain/eve transcendent, *Arch. Rat. Mech. Anal.* **103** (1988), 97-138.
- (85) (With Chunqing Lu, N.D. Kazarinoff & W.C. Troy) Existence of Mlutions of the similarity equations for floating rectangular cavities and disks, *SIAM J. Math. Anal.* **19** (1988), 1119-1126.
- (86) (With K. R. Rajagopal & A.S. Wineman) On the existence of a class of deformations for incompressible isotropic elastic materials, *Proc. Royal Irish Acad.* **87** A (1988), 107-118.
- (87) (With L.A. Peletier) Elliptic equations with critical growth and Moser's inequality, in Variational Methods (Berestycki, ed.), *Birkhiiuser*, 1990, pp. 185-196.
- (88) (With M.S.P. Eastham) Non-resonance for linear differential systems, *Proc. Royal Soc. Edin.* A 111 (1989), 103-122.
- (89) (With LA. Peletier) Observations on Moser's inequality, Arch. Rat. Mech. Anal. 106 (1989), 261-285.
- (90) (With C.J. Budd, A. Friedman & A.A. Wheeler) The space charge problem, SIAM J. Appl. Math. 50 (1990), 181-198.
- (91) (With C.J. Amick) A singular perturbation problem in needle crystals, Arch. Rat. Mech. Anal. 109 (1990), 139-171.
- (92) (With LA. Peletier & J.L. Vazques) Solutions of anonlinear ordinary differential equation appearing in the theory of diffusion with absorption, *Differential and Inte- gral Equations* 4 (1991), 1-14.
- (93) (With W.C. Troy) The skyme model for nucleons, *Proc. Royal Soc. Edin.* A 118 (1991), 271-288.
- (94) (With S.J. Chapman, S.D. Howison & J.R. Ockendon) Normal-superconducting transitions in Landau-Ginzburg theory, *Proc. Royal Soc. Edin.* **A 119** (1991), 117-124.
- (95) (With G.R. Burton) Maximization and minimization on classes of rearrangements, *Proc. Royal Soc. Edin.* **A 119** (1991), 287-300.
- (96) (With C.J. Amick) A singular perturbation problem in water waves, *Stability and Applied Analysis of Continuous Media* 1 (1991), 127-148.
- (97) (With F. Bernis) Similarity solutions of a higher order nonlinear diffusion equation, *Nonlinear Analysis, Theory, Methods and Applications* **17** (1991), 1039-1068.
- (98) (With J.A. Smoller, A.G. Wasserman & S.T. Yau) Smooth static solutions of the Einstein/Yang-Mills equations, *Comm. Math. Phys.* **143** (1991), 115-147.
- (99) (With S.P. Hastings) Periodic solutions of a forced second-order equation, *Nonlinear Science* **1** (1991), 225-243.
- (100) Laminar flow in a porous channel, in Proceedings of a NATO Conference on Asymptotics Beyond All Orders, H. Segur et al., (eds), *Plenum*, 1991, pp. 255-266.
- (101) (With M.K. Kwong, L.A. Peletier & W.C. Troy) On ground state solutions of -6u = uP- uq, *J. Diff. Eq.* **95** (1992), 218-239.
- (102) (With A.P. Bassom, P.A. Clarkson & A.C. Hicks) Integral equations and exact solutions for the fourth Painleve equation, *Proc. Royal Soc. Lond.* A **437** (1992), 1-24.
- (103) Smoothing of Stokes discontinuities, Proc. Royal Soc. Lond. A 437 (1992), 343-354.
- (104) (With C.A. Stuart & W.C. Troy) An exact reduction of Maxwell's equations, in Nonlinear Diffusion Equations and their Equilibrium States, 3 (Lloyd et al., eds.), *Birkhauser*, 1992, pp. 391-405.
- (105) (With P.A. Clarkson) Integral equations and connection formulae for the Painleve equations, in Proceedings of a NATO Conference on Painleve Transcendents (D. Levi and P. Winternitz, eds.), *Plenum*, 1992, pp. 1-31.
- (106) (With J.A. Smoller, A.G. Wasserman & S.T. Yau) Smooth static solutions of the Einstein/Yang-Mills equations, *Bull. Amer. Math. Soc.* **27** (1992), 239-242.

- (107) (With W.C. Troy) A boundary value problem associated with the Einstein- Yang-Mills equations, *Arabian J. Sci. Eng.* **17** (1992), 565-575.
- (108) (With S.P. Hastings) Chaotic motion of a pendulum with oscillatory forcing, *Amer. Math. Monthly* **100** (1993), 563-572.
- (109) (With G.B. Ermentrout) Existence and uniqueness of travelling waves for a neural network, *Proc. Royal Soc. Edin.* A 123 (1993), 461-478.
- (110) (With A.V. Kitaev & C.K. Law) Rational solutions of the fifth Painleve equation, *Differential and Integral Equations* 7 (1994), 967-1000.
- (111) (With X. Chen, S.P. Hastings & Y. Yang) A nonlinear elliptic equation arising from gauge field theory and cosmology, *Proc. Royal Soc. Lond.* A **446** (1994), 453-478.
- (112) (With S.P. Hastings & W.C. Troy) Static spherically symmetric solutions of a Yang-Mills field coupled to a dilation, *Proc. Royal Soc. Lond.* A **449** (1995), 479-491.
- (113) Ginzburg- Landau vortices, in Proceedings of the International Mathematics Conference '94 (Y. Fong et al., eds.) *World Scientific* (1995), 153-159.
- (114) (With G. Friesecke) Dynamics as a mechanism preventing the formation of finer and finer microstructure, *Arch. Rat. Mech. Anal.* **133** (1996), 199-247.
- (115) Solution of a contact lens problem, Euro. J. Appl. Math 7 (1996), 595-602.
- (116) (With S.P. Hastings) An oscillatory differential equation, *Methods and Applications of Analysis* 3 (1996), 432-446.
- (117) (With S.V. Raghavan & W.C. Troy) A singular perturbation problem arising from the Kuramoto-Sivashinsky equation, *Differential and Integral Equations* **10** (1997), 1-36.
- (118) (With K. R. Rajagopal) Inhomogeneous non-uniderectional deformations of a wedge of a non-linearly elastic material, Arch. Rat, Mech. Anal 147 (1999), 179-196.
- (119) The Stokes and Krasovskii conjecture for the wave of greatest height, Stud. Appl. Math. 98 (1997), 311-334,
- (120) (With G. Friesecke) Dynamics of non-minimizing phase mixtures, *Proc. Royal Soc. Lond*/ **453** (1997), 2427-2436.
- (121) (With A.P. Bassom, P. A. Clarkson & C. K. Law) Application of uniform asymptotics to the Painleve equations, *Arch. Rat. Mech. Anal.* **143** (1998), 241-247.
- (122) (With L. F. Cheung, C. K. Law & M. C. Leung) Entire solutions of quasilinear differential equations corresponding to p-harmonic maps, *Nonlinear Analysis* 31 (1998), 701-715.
- (123) An integral equation in probability, Nonlinear Analysis and Continuum Mechanics (to appear).
- (124) (With J. Carr) Solitary waves on lattices, *Proc. Royal Soc. Edin.* (to appear).
- (125) (With L. E. Fraenkel) The wedge entry problem, *Proc. Royal Soc. Lond.* (to appear).
- (126) (With Y. Yang) On the energy gap in the Bardeen-Cooper- Schrieffer theory of superconductivity, submitted.
- (127) (With S. P. Hastings & W. C. Troy) Static spherically symmetric solutions of a Yang-Mills field coupled to a dilation, *Proc. Roy. Soc. Lond.* Ser. A 449 (1995), no. 1937, 479-491.
- (128) Ginzburg-Landau vortices, *International Mathematics Conference* '94' (Kaohsiung, 1994) 153-159, World Sci. Publ., River Edge, NJ 1996.
- (129) (With G. Friescke) Dynamics as a mechanism preventing the formation of finer an finer microstructure, *Arch. Rational Mech. Anal.* 133 (1996), no. 3, 199-247.
- (130) (With S. P. Hastings) An oscillatory differential equation, Methods Appl. Anal. 3 (1996), no. 4,432-446.
- (131) Solution of a contact lens problem, European J. Appl. Math. 7 (1996), no. 6, 595-602.
- (132) (With L. E. Fraenkel) Some results fo the entry of blunt wedge into water. *Philos.Trans. Roy. Soc. Lond.* Ser. A 355 (1997) no. 1724, 523-535.
- (133) (With Z. Chen & B. Ermentrout) Traveling fronts for a class of non-local convolution differential equations, *Appl Anal.* 64 (1997), no. 3-4, 235-253.
- (134) (With G. Friesecke) Dynamic stability of non-minimizing phase mixtures, *Proc. Roy. Soc. Lond.* Ser. A 453 (1997), no. 1966, 2427-2436.
- (135) (With L. F. Cheung, C. K. Law & M. C. Leung) Entire solutions of quasilinear differential equations corresponding to *p*-harmonic maps, *Nonlinear Anal.* 31 (1998), no. 5-6, 701-715.
- (136) (With A. P. Bassom, P. Clarkson & C. K. Law) Application of uniform asymptotics to the second Painleve transcendent, *Arch. Rational Mech. Anal.* 143 (1998), no. 3, 241-271.
- (137) (With C. B. Wang) Relation between Painleve-II ($\alpha = 0$) and Painleve-II ($\alpha = \pm \frac{1}{2}$). Dedicated to Prof. C. Vinti (Italian) (Perugia, 1996), *Atti Sern. Mat. Fis. Univ. Modena* 46 (1998), suppl., 241-247.
- (138) An integral equation in probability, *Nonlinear Anal. & Cont. Mech.* (Ferrara, 1992), 85-93, Springer, New York, 1998.
- (139) (With Youmin Lu) Asymptotics of the negative solutions to the general fifth Painleve equation, *Appl. Anal.* 73 (1999), no. 3-4, 523-541.
- (140) (With K. R. Rajagopal) Inhomogeneous non-unidirectional deformations of a wedge of a nonlinearly elastic material, *Arch. Ration. Mech. Anal.* 147 (1999), no. 3, 179-196.
- (141) (With Youmin Lu) Asymptotics of the nonnegative solutions of the general fifth Painleve equation, *Appl. Anal.* 72 (1999), no. 3-4, 501-517.

- (142) (With A. Carpio, S. J. Chapman & S. P. Hastings) Wave solutions for a discrete reaction-diffusion equation, *European J. Appl. Math.* 11 (2000), no. 4, 399-412.
- (143) (With Yisong Yang) The uniqueness and approximation of a positive solution of the Bardeen-Cooper-Schrieffer gap equation, *J. Math. Phys.* 41 (2000), no. 9, 6007-6025.
- (144) (With C. B. Wang) Existence of solutions for the 't Hooft-Polyakov-Julia-Zee monople, *Differential Integral Equations* 14 (2001), no. 12, 1409-1420.
- (145) (With A. L. Kay & J.A. Sherratt) Comparison theorems and variable speed waves for a scalar reaction-diffusion equation, *Proc. Roy. Soc. Edin.* Sect. A 131 (2001), no. 5, 1133-1161.
- (146) (With C. B. Wang) Existence of solutions for the Cho-Maison monopole/dyon. *Roy.Soc. Lond. Proc. Ser. A. Math. Phys. Eng. Sci.* 457 (2001), no. 2008, 773-784.
- (147) (With F. P. Da Costa & M. Grinfeld) Unimodality of steady size distributions of growing cell populations. Dedicated to the memory of Tosio Kato, *J. Evol. Equat.* 1 (2001), no. 4, 405-409.
- (148) (With S. P. Hastings & W. C. Troy) Boundary-value problems in the Fanno model for turbulent compressible flow. *Proc. Roy. Soc. Edin.* Sect. A 132 (2002), no. 1, 121-140.
- (149) (With P. J. Bushell) Shapiro's cyclic inequality for even n, J. Inequal. Appl. 7 (2002), no. 3, 331-348.
- (150) (With C. A. Stuart & W. C. Troy) Stability of standing waves for some nonlinear Schrodinger equations, *Differential Integral Equations* 16 (2003), no. 9, 1025-1038.
- (151) (With C. B. Wang) Discrete integrable systems associated with the unitary matrix model, *Anal. Appl.* (Singapore) 2 (2004), no. 2, 101-127.
- (152) (With T. Tanriverdi) Generalization of the eigenvalues by contour integrals, *Appl. Math. Comput.* 189 (2007), no. 2, 1765-1773.
- (153) (With S. P. Hastings & D. Kinderlehrer) Diffusion mediated transport in multiple state systems, *SIAM J. Math. Anal.* 39 (2007/08), no. 4, 1208-1230.
- (154) (With T. Tanriverdi) The analysis of contour integrals, Abstr. Appl. Anal. (2008) Art, 12 pp.
- (155) (With R. E. Voskoboinikov, S. J. Chapman & J. R. Ockendon) Asymptotics of edge dislocation pile-up against a bimetallic interface, *Math. and Mech. of Solids*, 14 (2009), 294-295.
- (156) (With C. B. Wang) Eigenvalue density in Hermitian matrix models by the Lax pair method. *J. Phys. A* 42 (2009), 205-230.
- (157) (With S. P. Hastings) An elementary approach to a model problem of Lagerstrom. SIAM J. Math. Anal. 40 (2009), 2421–2436.
- (158) (With E. S. Benilov, S.J. Chapman, J. R. Ockendon & V. S. Zubkov) On liquid films on an inclined plate, *J. Fluid. Mech.* 663 (2010), 53-69.
- (159) (With B. Niethammer & J. J. Velázquez) Asymptotics of self-similar solutions to coagulation equations with product kernel. *J. Stat. Phys.* 144 (2011), no. 1, 76–100.
- (160) (With S. P. Hastings) Short proofs of results by Landesman, Lazer, and Leach on problems related to resonance, *Differential Integral Equations* 24 (2011), 435-441,
- (161) (With S. P. Hastings) Classical Methods in Ordinary Differential Equations, Amer. Math. Soc. 2012.
- (162) (With S. Sadhu) Existence of solutions and asymptotic analysis of a class of singularly perturbed ODEs with boundary conditions. *Adv. Differential Equations* 18 (2013), no. 9-10, 825–848.
- (163) (With S. P. Hastings) Uniqueness of relaxation oscillations: a classical approach, *Quart. Appl. Math.* 73 (2015), 201-217.