

## Publications of Cornelius O. Horgan

### A. Book Chapters

- Variational methods for eigenvalue problems with discontinuous coefficients, (with S. Nemat-Nasser). Invited paper published in *Mechanics To-Day* (S. Nemat-Nasser, editor), Vol. 5 (1980), (Pergamon Press), [Special Issue celebrating the 65th Birthday of Eric Reissner], pp. 365–376.
- Recent developments concerning Saint-Venant's principle, (with J.K. Knowles). Invited review article in *Advances in Applied Mechanics* (T.Y. Wu and J.W. Hutchinson, editors), Vol. 23, 1983, Academic Press, pp. 179–269.
- Decay estimates for a class of second-order quasilinear equations in three dimensions, (with L.E. Payne). Invited paper in *Analysis and Thermomechanics* (Walter Noll 60th Birthday Volume) (edited by B.D. Coleman, M. Feinberg and J. Serrin), Springer-Verlag, Berlin, 1987, pp. 13–23.
- On Saint-Venant's principle in finite anti-plane shear: An energy approach, (with L.E. Payne). Invited paper in *Mechanics and Thermodynamics of Continua* (B.D. Coleman 60th Birthday Volume) (edited by H. Markovitz, V.J. Mizel and D.R. Owen), Springer-Verlag, Berlin, 1991, pp. 269–299.
- The influence of geometric perturbations on the decay of Saint-Venant end effects in linear isotropic elasticity, (with L.E. Payne). Invited paper in *Partial Differential Equations with Real Analysis* (ed. by H. Begehr and A. Jeffrey), Pittman Research Notes in Mathematics Series, Vol. 263, Longman, Essex, 1992, pp. 187–218.
- Decay estimates for boundary-value problems in linear and nonlinear continuum mechanics. Invited review paper in *Mathematical Problems in Elasticity* (ed. by R. Russo), *Advances in Mathematics for Applied Science* (ed. by G.P. Galdi), World Scientific Publishing, Singapore, 1996, pp. 47–89.
- Saint-Venant end effects for anisotropic materials, (with L.A. Carlsson). Invited Chapter in *Comprehensive Composite Materials* (ed. by A. Kelly and C. Zweben), Volume 5, Elsevier Science Ltd., Oxford, 2000, pp. 5–21.
- Equilibrium solutions for compressible nonlinearly elastic materials. Invited Chapter in *Nonlinear Elasticity: Theory and Applications* (ed. by R.W. Ogden and Y. Fu), London Mathematical Society Lecture Notes No. 283, Cambridge University Press, 2001, pp. 135–159.
- Recent mathematical developments for functionally graded linearly elastic materials. Invited Chapter in *Integral Methods in Science and Engineering* (ed. by

P. Schiavone, C. Constanda and A. Mioduchowski), Birkhauser, Boston, 2002, pp. 123–130.

## B. Refereed Journals

1. On the exponential decay of stresses in circular elastic cylinders subject to axisymmetric self-equilibrated end loads, (with J.K. Knowles), *International Journal of Solids and Structures*, 5, 1969, 33–50.
2. Eigenvalue problems associated with Korn's inequalities, (with J.K. Knowles), *Archive for Rational Mechanics and Analysis*, 40, 1971, 384–402.
3. On Saint-Venant's principle in plane anisotropic elasticity, *Journal of Elasticity*, 2, 1972, 169–180.
4. Some remarks on Saint-Venant's principle for transversely isotropic composites, *Journal of Elasticity*, 2, 1972, 335–339.
5. A note on the displacement boundary-value problem of linearized elastodynamics, *Journal of Elasticity*, 2, 1972, 357–360.
6. A note on a class of integral inequalities, *Proceedings of the Cambridge Philosophical Society*, 7, 1973, 231–234.
7. On the strain–energy density in linear elasticity, *Journal of Engineering Mathematics*, 7, 1973, 231–234.
8. On the Dirichlet problem for incompressible elastic materials, (with M. Hayes), *Journal of Elasticity*, 4, 1974, 17–25.
9. The axisymmetric end problem for transversely isotropic circular cylinders, *International Journal of Solids and Structures*, 10, 1974, 837–852.
10. On the displacement boundary-value problem for inextensible elastic materials, (with M. Hayes), *Quarterly Journal of Mechanics and Applied Mathematics*, 27, 1974, 287–297.
11. A note on conformal mappings of convex domains, (with J.K. Knowles), *Utilitas Mathematica*, 5, 1974, 75–78.
12. On Korn's inequality for incompressible media, *SIAM Journal on Applied Mathematics*, 28, 1975, 419–430.
13. Inequalities of Korn and Friedrichs in elasticity and potential theory, *Journal of Applied Mathematics and Physics (ZAMP)*, 26, 1975, 155–164.
14. A Saint-Venant principle for the gradient in the Neumann problem, (with L.T. Wheeler and M.J. Turteltaub), *Journal of Applied Mathematics and Physics (ZAMP)*, 26, 1975, 141–154.

15. A spatial decay estimate for pseudoparabolic equations, (with L.T. Wheeler), *Letters in Applied and Engineering Sciences*, 3, 1975, 237–243.
16. On mixed boundary value problems for inextensible elastic materials, (with M. Hayes), *Journal of Applied Mathematics and Physics (ZAMP)*, 26, 1975, 261–272.
17. On the domain of attraction for steady states in heat conduction, (with R.R. Nachlinger), *International Journal of Engineering Science*, 14, 1976, 143–148.
18. Spatial decay estimates for the heat equation via the maximum principle, (with L.T. Wheeler), *Journal of Applied Mathematics and Physics (ZAMP)*, 27, 1976, 371–376.
19. Isoperimetric bounds on the lowest nonzero Stekloff eigenvalue for plane strip domains, (with L.T. Wheeler), *SIAM Journal on Applied Mathematics*, 31, 1976, 385–391.
20. Upper and lower bounds for the shear stress in the Saint-Venant theory of flexure, (with L.T. Wheeler), *Journal of Elasticity*, 6, 1976, 383–403.
21. Saint-Venant's principle and the torsion of thin shells of revolution, (with L.T. Wheeler), *Journal of Applied Mechanics (Trans. ASME)*, 43, 1976, 663–667.
22. A two-dimensional Saint-Venant principle for second-order linear elliptic equations, (with L.T. Wheeler), *Quarterly of Applied Mathematics*, 34, 1976, 257–270.
23. Integral bounds for solutions of nonlinear reaction–diffusion equations, *Journal of Applied Mathematics and Physics (ZAMP)*, 28, 1977, 197–204.
24. Exponential decay estimates for second-order quasilinear elliptic equations, (with L.T. Wheeler), *Journal of Mathematical Analysis and Applications*, 59, 1977, 267–277.
25. Maximum principles and pointwise error estimates for torsion of shells of revolution, (with L.T. Wheeler), *Journal of Elasticity*, 7, 1977, 387–410.
26. Isoperimetric inequalities for the Dirichlet eigenvalue problem, (with L.T. Wheeler), *Quarterly of Applied Mathematics*, 35, 1977, 406–409.
27. Saint-Venant's principle and end effects in anisotropic elasticity, (with I. Choi), *Journal of Applied Mechanics (Trans. ASME)*, 44, 1977, 424–430.
28. Saint-Venant end effects for plane deformation of sandwich strips, (with I. Choi), *International Journal of Solids and Structures*, 14, 1978, 187–195.

29. Spatial decay estimates for the Navier–Stokes equations with application to the problem of entry flow, (with L.T. Wheeler), *SIAM Journal on Applied Mathematics*, 35, 1978, 97–116.
30. Stability and uniqueness for a turbulence model of Burgers, (with W.E. Olmstead), *Quarterly of Applied Mathematics*, 36, 1978, 121–127.
31. Harmonic waves in layered composites: new bounds on eigenfrequencies, (with K.W. Lang and S. Nemat-Nasser), *Journal of Applied Mechanics* (Trans. ASME), 45, 1978, 829–833.
32. Plane entry flows and energy estimates for the Navier–Stokes equations, *Archive for Rational Mechanics and Analysis*, 68, 1978, 359–381.
33. Bounds on eigenvalues of Sturm–Liouville problems with discontinuous coefficients, (with S. Nemat-Nasser), *Journal of Applied Mathematics and Physics* (ZAMP), 30, 1978, 77–86.
34. Eigenvalue estimates and the trace theorem, *Journal of Mathematical Analysis and Applications*, 69, 1979, 231–242.
35. Exponential decay estimates for a class of nonlinear elliptic equations, (with W.E. Olmstead), *Archive for Rational Mechanics and Analysis*, 71, 1979, 221–245.
36. The effect of nonlinearity on a principle of Saint-Venant type, (with J.K. Knowles), *Journal of Elasticity*, 11, 1981, 271–291.
37. Lower bounds for eigenvalues of Sturm–Liouville problems with discontinuous coefficients: integral equation methods, (with J.P. Spence and A.N. Andry), *Quarterly of Applied Mathematics*, 39, 1982, 455–465.
38. Maximum principles and bounds on stress concentration factors in the torsion of grooved shafts of revolution, *Journal of Elasticity*, 12, 1982, 281–291.
39. Saint-Venant end effects in composites, *Journal of Composite Materials*, 16, 1982, 411–422.
40. Finite anti-plane shear of a semi-infinite strip subject to a self-equilibrated end traction, (with R. Abeyaratne), *Quarterly of Applied Mathematics*, 40, 1983, 407–417.
41. Recent developments concerning Saint-Venant’s principle, (with J.K. Knowles). Invited review article in *Advances in Applied Mechanics* (T.Y. Wu and J.W. Hutchinson, editors), Vol. 23, 1983, Academic Press, 179–269.
42. Bounds on natural frequencies of composite circular membranes: integral equation methods, (with J.P. Spence), *Journal of Sound and Vibration*, 87, 1983, 71–81.

43. Bounds on stress-concentration factors in finite anti-plane shear, (with R. Abeyaratne), *Journal of Elasticity*, 13, 1983, 49–61.
44. On inequalities of Korn, Friedrichs and Babuska-Aziz, (with L.E. Payne), *Archive for Rational Mechanics and Analysis*, 82, 1983, 165–179.
45. Decay estimates for second order quasilinear partial differential equations, (with L.E. Payne), *Advances in Applied Mathematics*, 5, 1984, 309–332.
46. The pressurized hollow sphere problem in finite elastostatics for a class of compressible materials, (with R. Abeyaratne), *International Journal of Solids and Structures*, 20, 1984, 715–723.
47. Spatial decay estimates in transient heat conduction, (with L.E. Payne and L.T. Wheeler), *Quarterly of Applied Mathematics*, 42, 1984, 119–127.
48. Finite anti-plane shear of an infinite slab with a traction-free elliptical cavity: bounds on the stress concentration factor, (with R. Abeyaratne and A.H. Jafari), *International Journal of Nonlinear Mechanics*, 19, 1984, 431–443.
49. The finite deformation of a pressurized circular tube for a class of compressible materials, (with R. Abeyaratne and A.H. Jafari), *Journal of Applied Mathematics and Physics (ZAMP)*, 35, 1984, 227–246.
50. Decay estimates for a class of second-order quasilinear equations in three dimensions, (with L.E. Payne), *Archive for Rational Mechanics and Analysis* (invited paper in Walter Noll Birthday issue), 86, 1984, 279–289.
51. A note on the spatial decay of a three-dimensional minimal surface over a semi-infinite cylinder, *Journal of Mathematical Analysis and Applications*, 107, 1985, 285–290.
52. Initiation of localized plane deformations at a circular cavity in an infinite compressible nonlinearly elastic medium, (with R. Abeyaratne), *Journal of Elasticity*, 15, 1985, 243–256.
53. Saint-Venant end effects for incremental plane deformations of incompressible nonlinearly elastic materials, (with R. Abeyaratne and D.-T. Chung), *Journal of Applied Mechanics (Trans. ASME)*, 52, 1985, 847–852.
54. A bifurcation problem for a compressible nonlinearly elastic medium: growth of a micro-void, (with R. Abeyaratne), *Journal of Elasticity*, 16, 1986, 189–200.
55. The finite deformation of internally pressurized hollow cylinders and spheres for a class of compressible materials, (with D.-T. Chung and R. Abeyaratne), *International Journal of Solids and Structures*, 22, 1986, 1557–1570.

56. A note on a bifurcation problem in finite plasticity related to void nucleation, (with D.-T. Chung and R. Abeyaratne), *International Journal of Solids and Structures*, 23, 1987, 983–988.
57. Stress concentration factors in finite anti-plane shear: numerical calculations and analytical estimates, (with S.A. Silling), *Journal of Elasticity*, 18, 1987, 83–91.
58. Exponential decay estimates for solutions of the von Kármán equations on a semi-infinite strip, (with P. Vafeades), *Archive for Rational Mechanics and Analysis*, 104, 1988, 1–25.
59. Void nucleation in tensile dead-loading of a composite incompressible nonlinearly elastic sphere, (with T.J. Pence), *Journal of Elasticity*, 21, 1989, 61–82.
60. Decay estimates for the biharmonic equation with applications to Saint-Venant principles in plane elasticity and Stokes flows, *Quarterly of Applied Mathematics*, 47, 1989, 147–157.
61. Decay estimates for a class of nonlinear boundary value problems in two dimensions, (with L.E. Payne), *SIAM Journal on Mathematical Analysis*, 20, 1989, 782–788.
62. Cavity formation at the center of a composite incompressible nonlinearly elastic sphere, (with T.J. Pence), *Journal of Applied Mechanics* (Trans. ASME), 56, 1989, 302–308.
63. Cavitation in nonlinear elastodynamics for neo-Hookean materials, (with M.-S. Chou-Wang), *International Journal of Engineering Science*, 27, 1989, 967–973.
64. Void nucleation and growth for a class of incompressible nonlinearly elastic materials, (with M.-S. Chou-Wang), *International Journal of Solids and Structures*, 25, 1989, 1239–1254.
65. Some remarks on axisymmetric solutions in finite elastostatics for compressible materials, *Proceedings of the Royal Irish Academy, Section A* (invited paper in P.M. Quinlan Birthday issue), 89, 1989, 185–193.
66. On the asymptotic behavior of solutions of inhomogeneous second-order quasilinear partial differential equations, (with L.E. Payne), *Quarterly of Applied Mathematics*, 47, 1989, 753–771.
67. Recent developments concerning Saint-Venant’s principle: an update, *Applied Mechanics Reviews*, 42, 1989, 295–303.
68. On Saint-Venant’s principle in finite anti-plane shear: an energy approach, (with L.E. Payne), *Archive for Rational Mechanics and Analysis* (invited paper in B.D. Coleman Birthday issue), 109, 1990, 107–137.

69. On the asymptotic behavior of a minimal surface over a semi-infinite strip, (with D. Siegel), *Journal of Mathematical Analysis and Applications*, 153, 1990, 397–406.
70. Existence, uniqueness, and decay estimates for solutions in the nonlinear theory of elastic, edge-loaded, circular tubes, (with L.E. Payne and J.G. Simmonds), *Quarterly of Applied Mathematics*, 48, 1990, 341–359.
71. Finite strain solutions for a compressible elastic solid, (with M.M. Carroll), *Quarterly of Applied Mathematics*, 48, 1990, 767–780.
72. Lower bounds for free membrane and related eigenvalues, (with L.E. Payne), *Rendiconti di Matematica* (invited paper), Series 7, 10, 1990, 457–491.
73. Asymptotic analysis of an end-loaded transversely isotropic elastic semi-infinite strip weak in shear, (with J.G. Simmonds), *International Journal of Solids and Structures*, 27, 1991, 1895–1914.
74. Exponential decay estimates for capillary surfaces and extensible films, (with L.E. Payne), *Stability and Applied Analysis of Continuous Media*, 1, 1991, 261–282.
75. Pure torsion of compressible nonlinearly elastic circular cylinders, (with Debra A. Polignone), *Quarterly of Applied Mathematics*, 49, 1991, 591–607.
76. Axisymmetric finite anti-plane shear of compressible nonlinearly elastic circular tubes, (with Debra A. Polignone), *Quarterly of Applied Mathematics*, 50, 1992, 323–341.
77. Void nucleation and growth for compressible nonlinearly elastic materials: an example, *International Journal of Solids and Structures*, 29, 1992, 279–291.
78. A Saint-Venant principle for a theory of nonlinear plane elasticity, (with L.E. Payne), *Quarterly of Applied Mathematics*, 50, 1992, 641–675.
79. Strain energy density bounds for linear anisotropic elastic materials, (with M.M. Mehrabadi and S.C. Cowin), *Journal of Elasticity*, 30, 1993, 191–196.
80. The effect of constitutive law perturbations on finite anti-plane shear deformations of a semi-infinite strip, (with L.E. Payne), *Quarterly of Applied Mathematics*, 51, 1993, 441–465.
81. The eigenvalues for a self-equilibrated, semi-infinite, anisotropic elastic strip, (with E.C. Crafter, R.M. Heise, and J.G. Simmonds), *Journal of Applied Mechanics* (Trans. ASME), 60, 1993, 276–281.

82. Cavitation for incompressible anisotropic nonlinearly elastic spheres, (with Debra A. Polignone), *Journal of Elasticity*, 33, 1993, 27–65.
83. Phragmen-Lindelof type results for harmonic functions with nonlinear boundary conditions, (with L.E. Payne), *Archive for Rational Mechanics and Analysis*, 122, 1993, 123–144.
84. On the asymptotic behavior of solutions of linear second-order boundary value problems on a semi-infinite strip, (with L.E. Payne), *Archive for Rational Mechanics and Analysis*, 124, 1993, 277–303.
85. Effects of material anisotropy and inhomogeneity on cavitation for composite incompressible anisotropic nonlinearly elastic spheres, (with Debra A. Polignone), *International Journal of Solids and Structures*, 30, 1993, 3381–3416.
86. Conservation properties for plane deformations of isotropic and anisotropic linearly elastic strips, (with Kristin L. Miller), *Journal of Elasticity*, 33, 1994, 311–318.
87. Pure azimuthal shear of compressible nonlinearly elastic circular tubes, (with Debra A. Polignone), *Quarterly of Applied Mathematics*, 52, 1994, 113–131.
88. Anti-plane shear deformations for homogeneous and inhomogeneous anisotropic linearly elastic solids, (with Kristin L. Miller), *Journal of Applied Mechanics* (Trans. ASME), 61, 1994, 23–29.
89. Saint-Venant end effects in composite structures, (with J.G. Simmonds), *Composites Engineering*, 4, 1994, 279–286.
90. Anti-plane shear deformations in linear and nonlinear solid mechanics, *SIAM Review*, 37, 1995, 53–81.
91. Conservation properties for plane deformations of anisotropic linearly elastic curved strips, *Journal of Elasticity*, 37, 1995, 83–90.
92. A note on the pure torsion of a circular cylinder for a compressible nonlinearly elastic material with nonconvex strain-energy, (with Debra A. Polignone), *Journal of Elasticity*, 37, 1995, 167–178.
93. Pointwise gradient decay estimates for solutions of the Laplace and minimal surface equations, (with L.E. Payne and G.A. Philippin), *Differential and Integral Equations*, 8, 1995, 1761–1773.
94. On axisymmetric solutions for compressible nonlinearly elastic solids, *Journal of Applied Mathematics and Physics* (ZAMP) (invited paper in P.M. Naghdi Birthday issue), 46, 1995, S107–S125.

95. Saint-Venant end effects for plane deformations of elastic composites, (with Kristin L. Miller), *Mechanics of Composite Materials and Structures*, 2, 1995, 203–214.
96. End effects for plane deformations of an elastic anisotropic semi-infinite strip, (with Kristin L. Miller), *Journal of Elasticity*, 38, 1995, 261–316.
97. Korn's inequalities and their applications in continuum mechanics, *SIAM Review*, 37, 1995, 491–511.
98. Cavitation in nonlinearly elastic solids: a review, (with Debra A. Polignone), *Applied Mechanics Reviews*, 48, 1995, 471–485.
99. End effects for anti-plane shear deformations of sandwich structures, (with Sarah C. Baxter), *Journal of Elasticity*, 40, 1995, 123–164.
100. Further analysis of end effects for plane deformations of sandwich strips, (with A.C. Wijeyewickrema and J. Dundurs), *International Journal of Solids and Structures*, 33, 1996, 4327–4336.
101. Recent developments concerning Saint-Venant's principle: a second update, *Applied Mechanics Reviews*, 48, 1996, S101–S111.
102. Effects of curvilinear anisotropy on radially symmetric stresses in anisotropic linearly elastic solids, (with Sarah C. Baxter), *Journal of Elasticity*, 42, 1996, 31–48.
103. Remarks on ellipticity for the generalized Blatz-Ko constitutive model for a compressible nonlinearly elastic solid, *Journal of Elasticity*, 42, 1996, 165–176.
104. Spatial decay estimates for a class of second-order quasilinear elliptic partial differential equations arising in anisotropic nonlinear elasticity, (with L.E. Payne), *Mathematics and Mechanics of Solids*, 1, 1996, 411–423.
105. A semi-inverse shape optimization problem in linear anti-plane shear, (with P. Villaggio), *Journal of Elasticity*, 45, 1996, 53–60.
106. Anti-plane shear deformations of anisotropic sandwich structures: end effects, (with Sarah C. Baxter), *International Journal of Solids and Structures*, 34, 1997, 79–98.
107. Saint-Venant's principle in linear isotropic elasticity for incompressible or nearly incompressible materials, (with L.E. Payne), *Journal of Elasticity*, 46, 1997, 43–52.
108. End effects in multilayered orthotropic strips with imperfect bonding, (with N. Tullini and M. Savoia), *Mechanics of Materials*, 26, 1997, 23–34.

109. Spatial decay estimates for a coupled system of second-order quasilinear partial differential equations arising in thermoelastic anti-plane shear, (with L.E. Payne), *Journal of Elasticity*, 47, 1997, 3–21.
110. Saint-Venant decay rates for an isotropic inhomogeneous linearly elastic solid in anti-plane shear, (with Monica R. Scalpato), *Journal of Elasticity*, 48, 1997, 145–166.
111. Material instabilities for large deformations of the generalized Blatz-Ko material, *Applied Mechanics Reviews*, 50, 1997, S93–S96.
112. End effects for anti-plane shear deformations of periodically laminated strips with imperfect bonding, (with N. Tullini and M. Savoia), *Journal of Elasticity*, 50, 1998, 227–244.
113. End effects in anti-plane shear for an inhomogeneous isotropic linearly elastic semi-infinite strip, (with Alice M. Chan), *Journal of Elasticity*, 51, 1998, 227–242.
114. Torsion of functionally graded isotropic linearly elastic bars, (with Alice M. Chan), *Journal of Elasticity*, 52, 1999, 181–199.
115. Vibration of inhomogeneous strings, rods and membranes, (with Alice M. Chan), *Journal of Sound and Vibration*, 225, 1999, 503–513.
116. The pressurized hollow cylinder or disk problem for functionally graded isotropic linearly elastic materials, (with Alice M. Chan), *Journal of Elasticity*, 55, 1999, 43–59.
117. The stress response of functionally graded isotropic linearly elastic rotating disks, (with Alice M. Chan), *Journal of Elasticity*, 55, 1999, 219–230.
118. Simple torsion of isotropic hyperelastic incompressible materials with limiting chain extensibility, (with G. Saccomandi), *Journal of Elasticity*, 56, 1999, 159–170.
119. Pure axial shear of isotropic, incompressible nonlinearly elastic materials with limiting chain extensibility, (with G. Saccomandi), *Journal of Elasticity*, 57, 1999, 305–319.
120. Saint-Venant end effects in anti-plane shear for functionally graded linearly elastic materials, (with R. Quintanilla), *Mathematics and Mechanics of Solids*, 6, 2001, 115–132.
121. Pure azimuthal shear of isotropic, hyperelastic incompressible materials with limiting chain extensibility, (with G. Saccomandi), *International Journal of Nonlinear Mechanics*, 36, 2001, 465–476.

122. Spatial decay of transient end effects in functionally graded heat conducting materials, (with R. Quintanilla), *Quarterly of Applied Mathematics*, 59, 2001, 529–542.
123. Large deformations of a rotating solid cylinder for non-Gaussian isotropic, incompressible hyperelastic materials, (with G. Saccomandi), *Journal of Applied Mechanics*, 68, 2001, 115–117.
124. Anti-plane shear deformations for non-Gaussian isotropic, incompressible hyperelastic materials, (with G. Saccomandi), *Proceedings of the Royal Society of London, Series A*, 457, 2001, 1999–2017.
125. Saint-Venant end effects in anti-plane shear for a class of linear piezoelectric materials, (with A. Borrelli and M.C. Patria), *Journal of Elasticity*, 64, 2001, 217–236.
126. Saint-Venant’s principle for anti-plane shear deformations of linear piezoelectric materials, (with A. Borrelli and M.C. Patria), *SIAM Journal on Applied Mathematics*, 62, 2002, 2027–2044.
127. A two-point boundary value problem for the axial shear of hardening isotropic incompressible nonlinearly elastic materials, (with G. Saccomandi and I. Sgura), *SIAM Journal on Applied Mathematics*, 62, 2002, 1712–1727.
128. Constitutive modeling of rubber-like and biological materials with limiting chain extensibility, (with G. Saccomandi), *Mathematics and Mechanics of Solids*, 7, 2002, 353–371.
129. Internally pressurized radially polarized piezoelectric cylinders, (with D. Galic), *Journal of Elasticity*, 66, 2002, 257–272.
130. A molecular-statistical basis for the Gent constitutive model of rubber elasticity, (with G. Saccomandi), *Journal of Elasticity*, 68, 2002, 167–176.
131. Finite thermoelasticity with limiting chain extensibility, (with G. Saccomandi), *Journal of the Mechanics and Physics of Solids*, 51, 2003, 1127–146.
132. A description of arterial wall mechanics using limiting chain extensibility constitutive models, (with G. Saccomandi), *Biomechanics and Modeling in Mechanobiology*, 1, 2003, 251–266.
133. End effects for pre-stressed and pre-polarized piezoelectric solids in anti-plane shear, (with A. Borrelli and M.C. Patria), *Journal of Applied Mathematics and Physics (ZAMP)*, 54, 2003, 797–806.
134. The stress response of rotating radially polarized piezoelectric cylinders, (with D. Galic), *Journal of Applied Mechanics*, 70, 2003, 426–435.

135. A Saint-Venant principle for shear band localization, (with W.E. Olmstead), *Journal of Applied Mathematics and Physics (ZAMP)*, 54, 2003, 807–814.
136. Helical shear for hardening generalized neo-Hookean materials, (with G. Saccomandi), *Mathematics and Mechanics of Solids*, 8, 2003, 539–559.
137. A Lie group analysis of the axisymmetric equations of finite elastostatics for compressible materials, (with J.G. Murphy), *Mathematics and Mechanics of Solids* (in press).
138. Exponential decay of end effects in anti-plane shear for functionally graded piezoelectric materials, (with A. Borrelli and M.C. Patria), *Proceedings of the Royal Society of London, Series A* (in press).
139. A theory of stress softening of elastomers based on finite chain extensibility, (with R.W. Ogden and G. Saccomandi), *Proceedings of the Royal Society of London, Series A* (in press).
140. Spatial decay of transient end effects for nonstandard linear diffusion problems, (with R. Quintanilla), *IMA Journal on Applied Mathematics* (in press).
141. Spatial behaviour of solutions of the dual-phase-lag heat equation, (with R. Quintanilla), *Mathematical Methods in the Applied Sciences* (in press).
142. Superposition of generalized plane strain on anti-plane shear deformations in isotropic incompressible hyperelastic materials, (with G. Saccomandi), *Journal of Elasticity*, 73, 2003, 221–235.