

Single Authored Peer-reviewed Archived Publications

1. A numerical solution for viscoelastic half planes, *Journal of the Engineering Mechanics Division*, American Society of Civil Engineers, New York, NY, vol. 102, no. EM4, August 1976, pp. 601 – 612.
2. *¹ A Note on A numerical solution for viscoelastic half planes, *Journal of the Engineering Mechanics Division*, American Society of Civil Engineers, vol. 103, no. EM4, 1977, p. 778.
3. Foundation impedance matrices by substructure deletion, *Journal of the Engineering Mechanics Division*, American Society of Civil Engineers,, New York, NY, vol. 106, no. EM3, June 1980, pp. 517 – 523.
4. Viscoelastic responses of finite bodies by Quadrature form of correspondence principle, *Journal of Applied Mechanics – Transactions of the ASME*, New York, NY, vol. 48, March 1981, pp. 206 – 207.
5. Sommerfeld radiation conditions and cloning algorithm, American Society of Mechanical Engineers, New York, NY, New Concepts in Finite Element Analysis², AMD-vol. 44, *Journal of Applied Mechanics – Transactions of the ASME*, 1981, pp. 47–66.
6. A finite element formulation for unbounded homogeneous continua, *Journal of Applied Mechanics – Transactions of the ASME*, New York, NY, vol. 104, March 1982, pp. 136 – 140.
7. Infinite Substructuring for Unbounded Continua, SMiRT 7, *The Commission of the European Communities, Transactions*, vol. K, no. 14, 1983, pp. 89 - 95.
8. Computation of exterior potential fields by infinite substructuring, *Computer Methods in Applied Mechanics and Engineering*, Elsevier Science (North-Holland), vol. 46, 1984, pp. 295 – 305.
9. Evaluation of added mass by a cloning algorithm, *International Journal of Numerical Methods in Engineering*, vol. 21, 1985, pp. 1157–1164.
10. Validity of Almansi theorems for anisotropic boundary elements, *International Journal of Engineering Analysis*, vol. 5, no. 2, 1988, pp. 89–94.
11. Contribution of Gaussian Curvature to Strain Energy of Plates, *Journal of the Engineering Mechanics Division*, American Society of Civil Engineers, vol. 115, no. EM7, July 1989, pp. 1434 - 1440.

¹shown as journal publication in Web of Science.®

²underlined references are sections in published books – found in google and sold by Amazon.com, usually authring is *by invitation*. Conference publications, e.g. , *Boundary and Interior Layers — Computational and Asymptotic Methods*, 1984, First Edition, Boole Press Limited, Dublin, Ireland, which are marketed as books, are *not* included since these refer to specific conferences, e.g. BAIL III.

12. Green's functions for inhomogeneous media for boundary elements, Advances in Boundary Elements, a *Special Volume of The International Journal of Engineering Analysis with Boundary Elements*, Elsevier, Computational mechanics Publication, Ashurst, UK, 1989, pp. 37-46.
13. Boundary elements with macro shape functions, Advances in Boundary Elements, a *Special Volume of The International Journal of Engineering Analysis with Boundary Elements*, Elsevier, Computational mechanics Publication, Ashurst, UK, 1989, pp. 253-262.
14. Boundary elements with *Mathematica*, *International Journal of Software Engineering*, Computational mechanics Publication, Ashurst, UK, vol. 6, no. 1, January 1990, pp. 1-10.
15. Boundary Modulation, *International Journal of Software Engineering*, Computational mechanics Publication, Ashurst, UK, vol. 9, 1992, pp. 247-253.
16. Approximate dynamic responses in random media, *Acta Mechanica*, Springer Verlag, 1992, vol. 3, pp. 99-114.
17. G. Dasgupta, Stochastic Constitutive Modeling for Electrorheological Media, *International Journal of Intelligent Material Systems and Structures*, Technomic, Lancaster, Pennsylvania, USA, June 1994, pp. 88 - 100.
18. Viscoplastic responses with stochastic Q-damping for soil, Solid mechanics and its applications, Kluwer Academic Publishers, Boston, 1995, pp. 117 - 126.
19. Stochastic Green's Functions, Computational Stochastic Mechanics, A. A. Balkema, Rotterdam, 1995, pp. 511 - 520.
20. Reliability analysis with Interval arithmetic, Mathematics with Vision, a *Special Volume of The Mathematica Journal*, Computational Mechanics Publication, Ashurst, UK, 1995, pp. 111-118.
21. Tesselica: A defect-free finite element paradigm, *Journal on Logic, History and Educational Computing*, Computer Science, Helsinki University of Technology, Helsinki, Finland, 1996, pp. 230-242.
22. Stochastic boundary elements, *Probabilistic Engineering Mechanics*, Elsevier Science Ltd., Great Britain, vol. 12, no. 4, 1997, pp. 298-301.
23. Finite elements beyond Courant's Triangulation, Innovation in Mathematics, a *Special Volume of The Mathematica Journal*, Computational Mechanics Publication, Ashurst, UK, May 1997, pp. 107-114.
24. Iterative Simulation for Stochastically Nonlinear Large Variability, *Journal of Aerospace Engineering*, ASCE, vol. 13, no. 1, January 2000, pp. 11-16.

25. Green's Functions for Random Media, *J. Chinese Institute of Engineers*, Nat. Taiwan Univ. Sc. and Tech. Taipei, Taiwan, vol. 23, no. 3, May 2000, pp. 1–8.
26. Wachspress Interpolants on Convex Polygons, Symbolic Computation: New Horizons, a *Special Volume of The Mathematica Journal*, Tokyo Denki University Press, Japan, June 2001, pp. 233–247.
27. Interpolants Within Convex Polygons: Wachspress' Shape Functions, *Journal of Aerospace Engineering*, ASCE, vol. 16, no. 1, January 2003, pp. 1–8.
28. Integration Within Polygonal Finite Elements, *Journal of Aerospace Engineering*, ASCE, vol. 16, no. 1, January 2003, pp. 9–18.
29. (*) Forward – Special issue in honour of Professor Bruno A. Boley, *International Journal of Solids and Structures*, vol. 41, no. 8, APR 2004, pp. 2039-2040.
30. (*) Preface – Honouring Professor Bruno A. Boley, *International Journal of Solids and Structures*, vol. 41, no. 8, APR 2004, pp. 2041-2042.
31. Closed-Form Isoparametric Shape Functions of Four-Node Convex Finite Elements, *Journal of Aerospace Engineering*, ASCE, vol. 21, no. 1, January 2008, pp. 10-18.
32. Stiffness Matrices of Isoparametric Four-Node Finite Elements by Exact Analytical Integration, *Journal of Aerospace Engineering*, ASCE, vol. 21, no. 2, April 2008, pp. 45-50.
33. Stochastic shape functions and stochastic strain-displacement matrix for a stochastic finite element stiffness matrix, *Acta Mechanica*, Springer Verlag, vol. 195, no. 1-4, 2008, pp. 379 – 395.