

Archival Publications

A. Books & Monographs (Authored & Edited)

Atluri, S.N., The Meshless Local-Petrov-Galerkin Method for Domain & BIE Discretizations, 2003, 680 pages, Tech Science Press (to appear).

Atluri, S.N., and Shen, S., The Meshless Local Petrov-Galerkin (MLPG) Method, 2002, 440 pages, Tech Science Press.

Atluri, S.N., Nishioka, T., and Kikuchi, M., (Editors) Advances in Computational Engineering & Sciences, 2001, Tech Science Press., 1340 pages.

Atluri, S.N., and Brust, F.W (Editors), Advances in Computational Engineering & Sciences, Vol. II, Tech. Sciences Press, CA, 1012 pages, 2000

Atluri, S.N., and Brust, F.W (Editors), Advances in Computational Engineering & Sciences, Vol. I, Tech. Science Press, CA, 1071 pages, 2000

Atluri, S.N., and O'Donoghue, P.E (Editors)., Modeling & Simulation Based Engineering, Vol. 1, Tech Science Press, Forsyth, GA, 1018 pages, 1998.

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Atluri, S.N., Structural Integrity and Durability, Tech Science Press, Forsyth, GA, 865 pages, 1997.

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- Atluri, S. N., Beskos, D. E., Yagawa, G., Jones, R (Editors), Computational Mechanics '91, Technology Publications 560 pages, 1991.
- Atluri, S. N., Tong, P. (Editors) Structural Integrity of Aging Airplanes, Springer-Verlag, 610 pages, 1991.
- Atluri, S.N., Newman, Jr., J.C., Raju, I.S., and Epstein, J.S (Editors), Analytical Methods in Fracture, American Society for Testing and Materials, 650 pages, June 1991.
- Atluri, S. N., Tong, P. (Editors), Frontiers in Computational Mechanics, (Festschrift for T.H.H. Pian), 440 pages, Pergamon Press, 1990.
- Arunachalam, V.S., Atluri, S.N., et al., (Editors) Advances in Structural Testing, Analysis and Design, Vols. I, 690 pages, Tata-McGraw-Hill, July, 1990.
- Arunachalam, V.S., Atluri, S.N., et al.,(Editors) Advances in Structural Testing, Analysis and Design, Vols. II, 710 pages, Tata-McGraw-Hill, July, 1990.
- Arunachalam, V.S., Atluri, S.N., et al.,(Editors) Advances in Structural Testing, Analysis and Design, Vols. III, 740 pages, Tata-McGraw-Hill, July, 1990.
- Atluri, S. N. Computational Methods in the Mechanics of Fracture, Russian Translation Edition, Mir Publishers, Moscow, USSR, 840 pages, 1989.
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- Atluri, S. N., Yagawa, G.(Editors), Computational Mechanics '88:-Theory and Application, Volume II, Springer-Verlag, NY, 1600 pages, 1988.
- Atluri, S. N., Amos, A. K. (Editors), Large Space Structures:-Dynamics & Control, Springer-Verlag, 470 pages, 1988.
- Atluri, S. N. (Editor), Handbook of Finite Elements, Part II, McGraw-Hill, 1200 pages, 1987.
- Atluri, S. N., Computational Methods in the Mechanics of Fracture, North-Holland Publishing Co., Amsterdam, 430 pages, 1986.
- Kanninen, M. F., Atluri, S. N. (Editors), Dynamic Fracture Mechanics, Pergamon Press, Great Britain, 340 pages, 1986.
- Atluri, S. N. (Guest Editor) Computer Methods in Applied Mechanics and Engineering, Vol. 5(1-2), North-Holland, 200 pages, April, 1986.
- Yagawa, G., Atluri, S. N. (Editors), Computational Mechanics '86, Vol. 1, Springer-International, Berlin, 1400 pages, May, 1986.
- Yagawa, G., Atluri, S. N. (Editors) Computational Mechanics '86, Vol. 2, Springer-International, Berlin, 1450 pages, May, 1986.
- Atluri, S. N., Perrone, N.(Editors)., Computer Methods for Nonlinear Solids and Structural Mechanics, AMD-Vol. 54, American Society of Mechanical Engineers, 525 pages, 1983.

Atluri, S. N., Gallagher, R. H., Zienkiewicz, O. C. (Editors), Hybrid & Mixed Finite Element Methods, J. Wiley & Sons, 600 pages, 1983.

Perrone, N., Atluri, S. N. (Editors), Nonlinear and Dynamic Fracture Mechanics, AMD-Vol. 35, American Society of Mechanical Engineers, 215 pages, 1979.

B. Papers in Archival Literature (Journals, Books, and Conference Proceedings)

Atluri SN, Han ZD, Li Q, and Shen S (2003): The Meshless Local Petrov-Galerkin (MLPG) Method for Domain and BIE Discretizations, Computers & Structures (Invited paper, in print)

Li Q, Shen S, Han Z-D, and Atluri SN (2003): Application of Meshless Local Petrov-Galerkin (MLPG) to Problems with Singularities, and Material Discontinuities, in 3-D Elasticity, CMES: Computer Modeling in Engineering & Sciences, Vol. 4., No. 5.

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- Strivastava D., Atluri S.N. (2002): Computational nanotechnology: A current perspective” CMES: Computer Modeling in Engineering and Sciences, 3 (5):531-538
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- Atluri S.N., Shen S.P. (2002): “The meshless local Petrov-Galerkin (MLPG) method: A simple & less-costly alternative to the finite element and boundary element methods” CMES: Computer Modeling in Engineering and Sciences, 3 (1) 11-51
- Long S.Y., Atluri S.N. (2002): “A meshless local Petrov-Galerkin method for solving the bending problem of a thin plate” CMES: Computer Modeling in Engineering and Sciences, 3 (1)
- Sun DC, Tong LY, Atluri SN ., ‘Effects of piezoelectric sensor/actuator debonding on vibration control of smart beams” International Journal of solids & Structures,38 (50-51): 9033-9051, DEC 2001
- Sladek J, Sladek V, Atluri SN.,” A pure contour formulation for the meshless local boundary integral equation method in thermoelasticity”, CMES: Computer Modeling in Engineering & Sciences 2 (4): 423-433, 2001
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