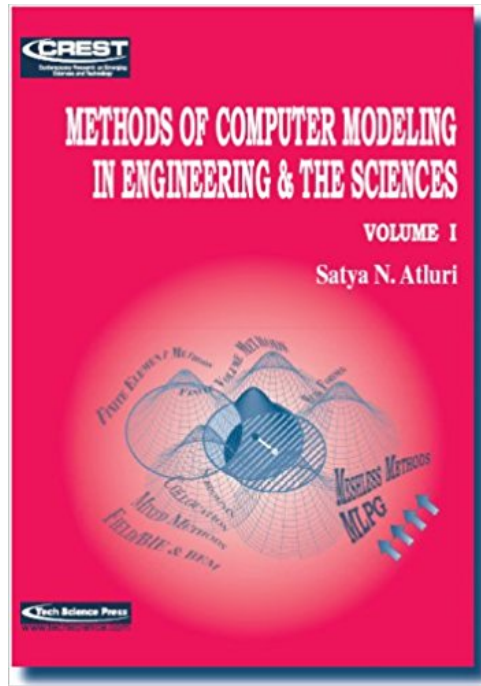**Professor Satya N. Atluri**

Atluri, S.N.: Methods of Computer Modeling in Engineering & the Sciences, Tech Science Press, (2005)

See:
https://en.wikipedia.org/wiki/Satya_N._Atluri
https://scholar.google.com/citations?user=NypV9pkAAAAJ&hl=en
http://engineering.uci.edu/news/2002/7/leading-aerospace-engineer-satya-n-atluri-join-samueli-school
https://www.google.com/search?q=satya+n+atluri&ie=utf-8&oe=utf-8
https://www.nae.edu/30193.aspx
http://videolectures.net/satya_n_atluri/
http://hias.tamu.edu/faculty-fellows/2013-14/satya-atluri
http://aviationweek.com/awin/satya-n-atluri
https://www.aiaa.org/SecondaryTwoColumn.aspx?id=26068
http://worldcat.org/identities/lccn-n80004976/
http://www.depts.ttu.edu/ME/faculty/faculty.php?name= Satya N. Atluri

Department of Mechanical Engineering
Texas Tech University, Lubbock, Texas, USA

Biography (from Wikipedia):
Satya Atluri is currently a Professor in the Department of Mechanical Engineering at Texas Tech University.[1] His research focuses upon the areas of aerospace and mechanics. His teaching and research interests are in the disciplinary areas of: computational mathematics; theoretical, applied, and computational mechanics of solids and fluids at various length and time scales; computer modeling in engineering and sciences; meshless and other novel computational methods; structural longevity, failure prevention, and health management. He received Doctor of Science degrees from MIT (earned, 1969), National University of Ireland (1988, honoris causa), Slovak Academy of Sciences (2005, honoris causa), University of Patras, Greece (2007, honoris causa), and University of Nova Gorica, Slovenia (2009, honoris causa). He has taught at: UCLA (Distinguished Professor);

Georgia Tech (Institute Professor, Regents' Professor of Engineering, and Hightower Chair in Engineering); MIT (JC Hunsaker Professor, 1990-1991); and University of Washington (Assistant Professor). He is Tsing Hua Honorary Chair Professor at the National Tsing Hua University in Taiwan, an Honorary Professor at the University of Patras, Greece, and a World Class University (WCU) Program Distinguished Professor at Pusan National University, Korea. Previously he was an Honorary Professor at Tsinghua University, Beijing, and the Korea Advanced Institute of Science & Technology, and the Hong Kong University of Science and Technology. He is Fellow of American Academy of Mechanics; Fellow of American Institute of Aeronautics and Astronautics; Fellow of ASME; Honorary Fellow of the International Congress on Fracture, Fellow of the Aeronautical Society of India; Fellow of the Chinese Society of Theoretical & Applied Mechanics, and several other international academic and professional societies. He was elected to membership in the US National Academy of Engineering (1996); the Indian National Academy of Engineering (1997); Academy of Sciences for the Developing World (2003, Trieste), Member, European Academy of Sciences (2002), National Academy of Sciences of Ukraine (2008), Academy of Athens 2014 . He is Distinguished Alumnus of the Indian Institute of science, Bangalore. Some notable recognitions he received include those from ASME The Nadai medal 2012 [2] AIAA (the Structures, Structural Dynamics, and Materials Medal; the Pendray Aerospace Literature Medal and the SDM Lecture Award); from the Federal Aviation Administration ("Excellence in Aviation Award"); from the ASCE (the Aerospace Structures and Materials Award); from the Society of Engineering Science (The Eringen Medal); from ICCES (the "Hilbert Medal" and the "ICCES Gold Medal"); from JSME, Japan (the Computational Mechanics Medal); from the Greek National Association of Computational Mechanics (The Computational Mechanics Medal); from JSPS, Japan (JSPS Fellow, University of Tokyo); from the United States Secretary of Commerce (Distinguished Service Award, the President's National Medal of Technology Committee); from Georgia Tech (the second annual Distinguished Professor Award in 1986; and twice the annual Outstanding Researcher Awards, in 1991 and 1993). From Sigma Xi (the Sustained Research Award); from the Science Citation Index (one of 100 most highly cited researchers in engineering, 1980–2000); from the National Academy of Engineering (Technical Achievement Award, 1995). He has been a Midwestern Mechanics Lecturer (1989), as well as a Southwestern Mechanics Lecturer (1987). ICCES has established the Satya N. Atluri ICCES Medal in honor of its Founder. In 2013, he was awarded the Padma Bhushan. On 29 April 2014 he is inducted as a Corresponding Member of the Academy of Athens, Greece, the oldest organized scientific and philosophical academy in the history of the modern world.

Selected Honors and Awards:
- PADMA BHUSHAN (India) 2013
- The NADAI Medal(ASME) 2012
- Excellence in Aviation Award (FAA), 1998
- the Structures, Structural Dynamics, and Materials Medal, (AIAA), 1988
- the Pendray Aerospace Literature Medal, (AIAA), (AIAA), 1998
- the Aerospace Structures and Materials Award (ASCE), 1986
- Hilbert Medal (ICCES [4]), 2003
- Eringen Medal (Society of Engineering Science), 1995

Selected Publications:
Books:
S. Atluri, R.H. Gallagher and O.C. Zienkiewicz (Eds.)(1983). Hybrid and mixed finite element methods. Wiley, Chichester.
Atluri, S.N. and Amos, A.K., 1987. Large Space Structures: Dynamics and Control, Springer Verlag
Atluri, S.N.: The Meshless Method (MLPG) for Domain & BIE Discretizations, Tech Science Press, (2004)

Atluri, S.N.: Methods of Computer Modeling in Engineering & the Sciences, Tech Science Press, (2005)

Journal Articles, etc. (excluding fracture mechanics works):

S. Atluri, "A perturbation analysis of nonlinear free flexural vibrations of circular cylindrical shell,"Int. J. Solids Struct.,8, No. 4, 549–569 (1972).

Atluri S (1973) Nonlinear vibrations of a hinged beam including nonlinear inertia effects. J Appl Mech 40:121–126

Rhee HC and Atluri SN (1982), Hybrid stress finite element analysis of plate bending and general shells, International Journal for Numerical Methods in Engineering 18, 259–271.

Atluri, S.N. (1984), "Alternate stress and conjugate strain measures, and mixed variational formulation involving rigid rotations for computational analysis of finitely deformed solids, with applications to plate and shells. Part I", Comput. & Struct., 18, pp. 93-116.

Kondoh, K. and Atluri, S.N., 1985. Influence of Local Buckling on Global Instability: Simplified, Large Deformations, Post-Buckling Analyses of Plane Trusses, Computers and Structures Vol. 21, No. 4, pp. 613–627

36. Kondoh, K. and Atluri, S.N., 1986. A Simplified Finite Element Method for Large Deformation, Post-Buckling Analyses of Large Frame Structures, Using Explicitly Derived Tangent Stiffness Matrices, Int. Jour. for Numerical Methods in Eng., Vol. 23, pp. 69–90

Zhang J.D., Atluri S.N.: Post-buckling analysis of shallow shells by the field-boundary element method. Int. J. Numer. Methods Eng. 26, 571–587 (1986)

Kondoh, K.; Atluri, S. N. (1987): Large deformation elastoplastic analysis of frames under nonconservative loading, using explicitly derived tangent stiffness based on assumed stresses. Comput. Mech. 2, 1–25

Shi, G. and Atluri, S.N. (1988). Elasto-plastic large deformation analysis of space frames: A plastic-hinge and stress-based explicit derivation of tangent stiffnesses. Int. J. Num. Meth. Eng., 26, 589–615.

Atluri SN, Zhu T (1988) A new meshfree local Petrov-Galerkin(mlpg) approach in computational mechanics. Comput. Mech. 22:117-127

Zhang, J. D.; Atluri, S. N. (1988): Postbuckling analysis of shallow shells by the field-boundary-element method. Int. J. Num. Meth. Eng. 26, 571–587

M. Iura and S. N. Atluri, "On a consistent theory, and variational formulation of finitely stretched and rotated 3-D space-curved beams", Computational Mechanics, Vol. 4, No. 2, 1989, pp. 73-88

Atluri, S. N. and Tong, P., "Computational Schemes for Integrity Analyses of Fuselage Panels in Aging Airplanes," Structural Integrity of Aging Airplanes, Springer-Verlag, 1991, pp. 33.

T. Yoda and S.N. Atluri, "Postbuckling analysis of stiffened laminated composite panels, using a higher-order shear deformation theory", Computational Mechanics, Vol. 9, No. 6, pp 390-404, 1992

Atluri, S. N., and Cazzani, A., "Rotations in Computational Solid Mechanics," Archives for Computational Methods in Engineering, Vol. 2, 1994, pp. 49– 138.

Huang B-Z, Shenoy V B, Atluri S N 1994 A quasi-conforming triangular laminated composite shell element based on a refined first order theory.Comput. Mech. 13: 295–314

M. Iura and S. N. Atluri, "Dynamic analysis of planar flexible beams with finite rotations by using inertial and rotating frames", Computers & Structures, Vol. 55, No. 3, May 1995, pp. 453-462

W. T. Chow and S. N. Atluri, "Prediction of post-buckling strength of stiffened laminated composite panels based on the criterion of mixed-mode stress intensity factors", Engineering Computational Mechanics, Vol. 18, No. 3, 1995, pp. 215-224

B.-Z. Huang and S. N. Atluri, "A simple method to follow post-buckling paths in finite element analysis", Computers & Structures, Vol. 57, No. 3, November 1995, pp. 477-489

S.N. Atluri, A. Cazzani, 'Rotations in computational solid mechanics', Archives of Computational Methods in Engineering, 2, pp. 49-138, (1995).

B P Naganarayana and S N Atluri, "A computational model for analysing interactive buckling and delamination growth in composite structures", Sadhana, Vol. 21, No. 5, 1996, pp. 547-575

D.S. Pipkins and S.N. Atluri (Knowledge Systems, Inc.), "BUCKDEL v 0.9 Users and Theory Manuals: Buckling and Delamination Analysis of Stiffened Laminated Plates", Final Report, September 1995, April 1996, WL-TR-97-3045, April 1996, DTIC Accession Number: ADA327865, Handle / proxy Url : http://handle.dtic.mil/100.2/ADA327865

Atluri SN, Zhu T (1998) A new meshfree local Petrov-Galerkin(mlpg) approach to nonlinear problems in computer modeling and simulation. Comp. Modeling and Simulation in Eng. 3:187-196

Zhu T, Zhang J, Atluri SN (1998) A meshless local boundary integral equation (lbie) method for solving nonlinear problems. Comput. Mech. 22:174-186

S.N. Atluri, H.G. Kim, J.Y. Cho, A critical assessment of the truly meshless local Petrov–Galerkin (MLPG), and local boundary integral equation (LBIE) methods, Comput. Mech., 24 (1999), pp. 348–372

S.N. Atluri, F.W. Brust, A modified meshless local Petrov–Galerkin method for solid mechanics, Proceedings of the Advances in Computational Engineering & Sciences, Tech Science Press, Duluth (2000), pp. 1374–1379

H. G. Kim and S. N. Atluri, Arbitrary placement of secondary nodes, and error control, in the meshless local Petrov-Galerkin (MLPG) method, _ Computer Modeling in Engineering and Sciences, vol. 1, no. 3, pp. 11 _32, 2000

S. Long and S. N. Atluri, A meshless local Petrov-Galerkin method for solving the bending problem of a thin plate, _ Computer Modeling in Engineering and Sciences, vol. 3, no. 1, pp. 53 _63, 2001.

S.N. Atluri, S. Shen, The meshless local Petrov-Galerkin (MLPG) method: a simple & less-costly alternative to the finite element and boundary element methods, Tech Science Press, Vol.3, 1 (2002) 11-51.

Q. Li, S. Shen, Z. D. Han, and S. N. Atluri, Application of meshless local Petrov-Galerkin (MLPG) to problems with singularities, and material discontinuities, in 3-D elasticity, _ Computer Modeling in Engineering and Sciences, vol. 4, no. 5, pp. 571 _585, 2003.

Soric J, Li Q, Jarak T, Atluri SN (2004) Meshless local Petrove-Galerkin formulation for ananlysis of thick plates. CMES Comput Model Eng Sci 4: 349–357

Z. D. Han and S. N. Atluri, A Meshless Local Petrov-Galerkin (MLPG) approach for 3-dimensional elasto-dynamics, _ Computers, Materials and Continua, vol. 1, no. 2, pp. 129 _140, 2004.

S.N. Atluri, S. Shen, The basis of meshless domain discretization: the meshless local Petrov–Galerkin (MLPG) method, Advances in Computational Mathematics, Vol. 23, 1-2 (2005) 73–93.

X. Ling, S. Atluri, A hyperelastic description of single wall carbon nanotubes at moderate strains and temperatures, Computer Modelling in Engineering and Science 21 (2007) 81-91.

Sladek, J., Sladek, V., Solek, P., Wen, P.H., Atluri, S.N.: Thermal analysis of Reissner–Mindlin shallow shells with FGM properties by the MLPG. Comput. Model. Eng. Sci. 30, 77–97 (2008)