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I: Education

- (a) Civil Engg., BE 1967: Bengal Engg. College, Calcutta Univ., INDIA
- (b) Applied Mechanics, ME 1969: Bengal Engg. College, Calcutta Univ., INDIA
- (c) Structural Mechanics, PhD 1974 : U. C. Berkeley, USA
- (d) Structural Mechanics, Postdoc. 1974 –77: U. C. Berkeley, USA

II: Publications and Committees

Journal: 21 (single author), 21 (joint); Proceedings: exceeds 50;
Invited Papers: 12+; Invited Seminars: National 50+; International 75+;
Editorial Boards and Reviewers: International Journal 25+;
Chairperson: ASCE (Elasticity: 1980 – 1985) and (Bioengineering: 1990 – 1995);
Founding Chairperson: *International Mathematica Symposium*: 1995–2003

III: Fellowship

- (a) Alexander von Humboldt Stiftung, Germany, 1986– 1987
- (b) Fulbright Senior Professorship, Washington D.C., 1998-2001
- (c) Tsunoda Senior Fellowship, Waseda University, Japan, January/August 2013

IV: Some Original Theorems and Algorithms

- (a) Viscoelastic Analogy: An integral from the elastic counterpart, *vide*[5]
- (b) Illposed problems in elasticity: Extended Almansi's *isotropic* elasticity theorem for conditional solution of 1907 to *general anisotropy*, *vide*[2]
- (c) Cloning algorithm: For harmonic excitations, radiation damping as the imaginary part of the dynamic stiffness matrix is solved from a matrix quadratic equation with real valued finite element mass and stiffnesses matrices, *vide*[1]
- (d) Stochastic shape functions for stochastic finite elements, *vide*[3]
- (e) Locking-free unique analytical solutions for incompressible (kinematically constrained) and compressible finite elements quadrilaterals — convex, concave and degenerated triangles — with *exactly integrated* stiffness matrix are derived from quadratic polynomial Rayleigh modes, *vide*[4]

- [1] G. Dasgupta. A finite element formulation for unbounded homogeneous continua. *Journal of Applied Mechanics*, 104:136 — 140, 3 1982.
- [2] G. Dasgupta. Validity of Almansi theorems for anisotropic boundary elements. *Journal of Engineering Analysis*, 5(2):89–94, June 1988.
- [3] G. Dasgupta. Stochastic shape functions and stochastic straindisplacement matrix for a stochastic finite element stiffness matrix. *Acta Mechanica*, 195(1-4):379–395, January 2008.
- [4] G. Dasgupta. Incompressible and locking-free finite elements from Rayleigh mode vectors. *Acta Mechanica*, 223:1645 – 1656, August 2012.
- [5] G. Dasgupta and J. L. Sackman. An alternative representation of the elastic-viscoelastic correspondence principle for harmonic oscillations. *Journal of Applied Mechanics*, 99(1):57 – 60, 3 1977.