

## Professor Seyed Ali Hosseini Kordkheili

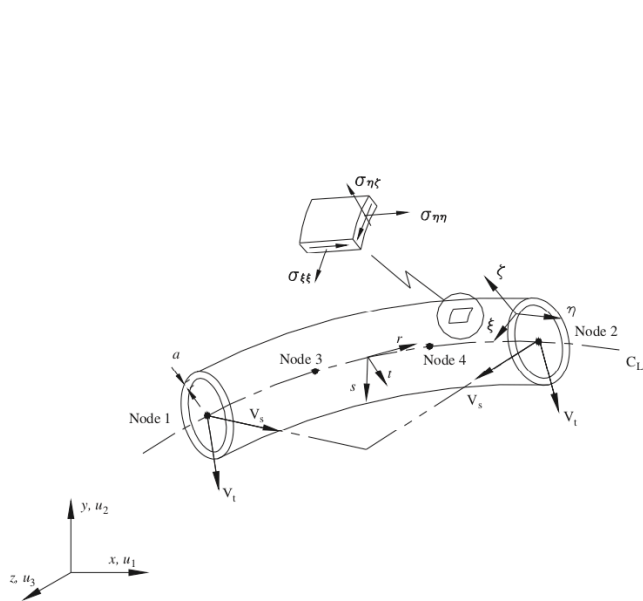


Fig. 1. Pipe elbow element together with coordinate system.

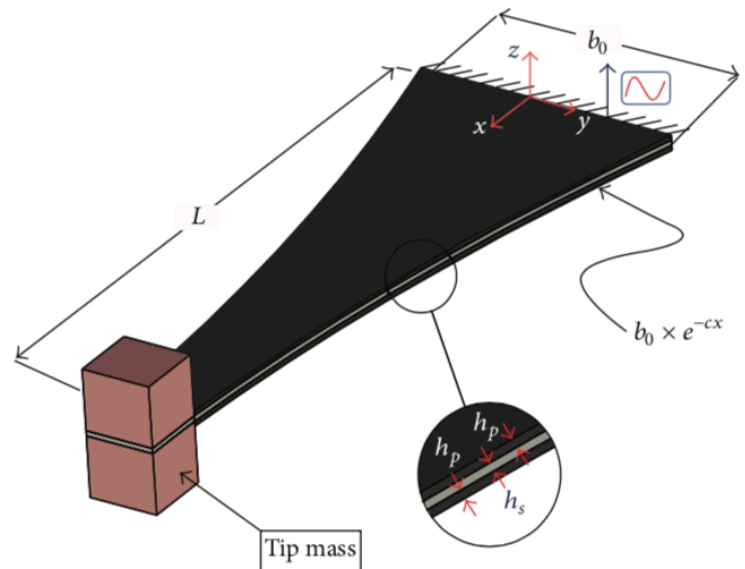


FIGURE 1: Piezoelectric energy harvester.

**Left-hand image is from:** S.A. Hosseini Kordkheili, H. Bahai and M. Mirtaheri, "An updated Lagrangian finite element formulation for large displacement dynamic analysis of three-dimensional flexible riser structures", *Ocean Engineering*, Vol. 38, pp 793-803, 2011

**Right-hand image is from:** H. Salmani, G.H. Rahimi and S.A. Hosseini Kordkheili, "An exact analytical solution to exponentially tapered piezoelectric energy harvester", *Shock and Vibration*, Vol. 2015, Article ID 426876, 2015

## Professor Seyed Ali Hosseini Kordkheili

See:

<https://scholar.google.com/citations?user=X-IJOaYAAAAJ&hl=en>

<http://ae.sharif.edu/~web/homepage.php?username=ali.hosseini>

[https://www.researchgate.net/scientific-contributions/72055671\\_S\\_A\\_Hosseini\\_Kordkheili](https://www.researchgate.net/scientific-contributions/72055671_S_A_Hosseini_Kordkheili)

Department of Aerospace Engineering  
Sharif University of Technology, Tehran, Iran

### Selected Publications:

Naghdadadi R., Hosseini Kordkheili S.A.: A finite element formulation for analysis of functionally graded plates and shells. *Arch. Appl. Mech.* 74, 375–386 (2005)

Hosseini Kordkheili S.A., Naghdabadi R.: Thermoelastic analysis of a functionally graded rotating disk. *Compos. Struct.* 79, 508–516 (2007)

Hosseini Kordkheili, S.A., and Naghdabadi, R., "Geometrically Nonlinear Thermoelastic Analysis of Functionally Graded Shells using Finite Element Method", *International Journal for Numerical Methods in Engineering*, Vol. 72, pp. 964–986, (2007).

S.A. Hosseini Kordkheili and H. Bahai, "Nonlinear dynamic analysis of flexible riser structures", *Proceedings of the ASME 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE2008)*, Estoril, Portugal, June 15-20, 2008

S.A. Hosseini Kordkheili and H. Bahai, "A non-linear finite element for simulation of large displacements of flexible risers with seabed interaction boundary condition", *Archive of Applied Mechanics*, October 2008

S.A. Hosseini Kordkheili, H. Bahai and M. Mirtaheeri, "An updated Lagrangian finite element formulation for large displacement dynamic analysis of three-dimensional flexible riser structures", *Ocean Engineering*, Vol. 38, pp 793-803, 2011

S. A. Hosseini Kordkheili and M. Livani, "Thermoelastic creep analysis of a functionally graded various thickness rotating disk with temperature-dependent material properties," *International Journal of Pressure Vessels and Piping*, vol. 111-112, pp. 63-74, 2013

Kordkheili SAH, Moshrefzadeh-Sani H (2013) Mechanical properties of double-layered graphene sheets. *Comput Mater Sci* 69:335-343.

Sajad Saraygord Afshari, Hadi Nobahari and Seyed Ali Hosseini Kordkheili, "Experimental parametric identification of a flexible beam using piezoelectric sensors and actuators", *Shock and Vibration*, Vol. 2014, Article ID 718140, 2014

H. Salmani, G.H. Rahimi and S.A. Hosseini Kordkheili, "An exact analytical solution to exponentially tapered piezoelectric energy harvester", *Shock and Vibration*, Vol. 2015, Article ID 426876, 2015

S.A. Hosseini Kordkheili and Z. Soltani, "A layerwise finite element for geometrically nonlinear analysis of composite shells", *Composite Structures*, Vol. 186, pp 355-364, February 2018

Seyed Ali Hosseini Kordkheili, Taha Mousavi and Hamid Bahai, "Nonlinear dynamic analysis of SWNTs conveying fluid using nonlocal continuum theory", *Structural Engineering and Mechanics*, Vol. 66, No. 5, pp 621-629, 2018

Z. Soltani, S.A. Hosseini Kordkheili and G. Kress, "Experimental and numerical study of geometrically nonlinear behavior of corrugated laminated composite shells using a nonlinear layer-wise shell FE formulation", *Engineering Structures*, Vol. 184, pp 61-73, 1 April 2019

S.A. Hosseini Kordkheili and R. Khorasani, "On the geometrically nonlinear analysis of sandwich shells with viscoelastic core: A layerwise dynamic finite element formulation", *Composite Structures*, Vol. 230, Article 111480, 15 December 2019