



Professor S. Ahmad Fazelzadeh

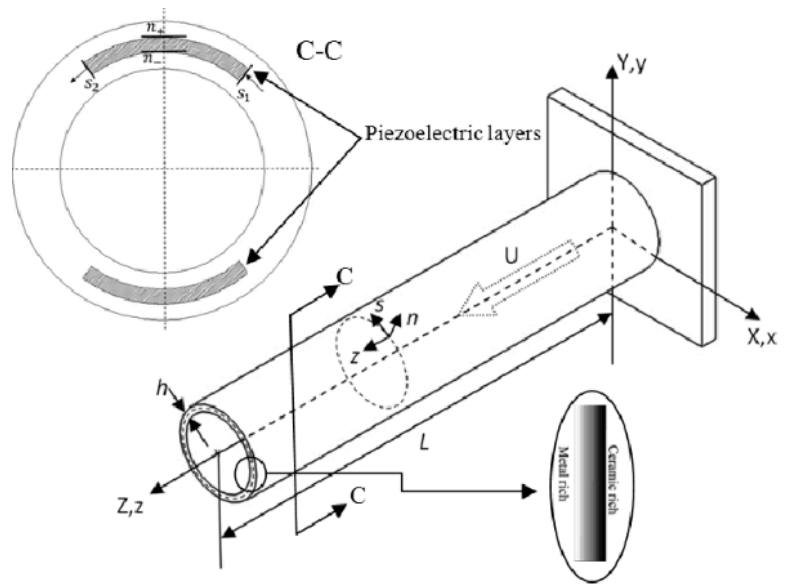


Figure 1: A cantilevered thin-walled FGM pipe conveying fluid

From: S.A. Fazelzadeh and B. Yazdanpanah, "Active flutter suppression of thin-walled cantilever functionally graded piezoelectric pipes conveying fluid", 20th Annual International Conference on Mechanical Engineering – ISME2012, 16-18 May, 2012, School of Mechanical Engineering, Shiraz University, Shiraz, Iran, ISME2012-2060

See:

<https://scholar.google.com/citations?user=bQ0yfl0AAAAJ&hl=en>

https://www.researchgate.net/profile/S_Fazelzadeh

School of Mechanical Engineering
Shiraz University, Shiraz, Iran

Selected Publications:

Pourtakdoust S, Fazelzadeh S (2003) Chaotic analysis of nonlinear viscoelastic panel flutter in supersonic flow. *Nonlinear Dyn* 32(4):387–404

Fazelzadeh SA, Malekzadeh P, Zahedinejad P, Hosseini M (2007) Vibration analysis of functionally graded thin-walled rotating blades under high temperature supersonic flow using the differential quadrature method. *J Sound Vib* 306:333–348

Fazelzadeh, S.A.: Chaotic behavior of nonlinear curved-panel in a supersonic flow. *Dyn. Contin. Discrete Ser. B* 14, 793–809 (2007)

S.A. Fazelzadeh and M. Hosseini, Aero-thermo-elastic behavior of supersonic rotating thin-walled beams made of functionally graded materials, *J. Fluids Struct.*, vol. 23, no. 8, pp. 1251–1264, 2007.

Jafarpur K, Fazelzadeh SA, Eslampanah MH (2008) Coupled aero-thermo-elastic response of functionally graded panels by using Galerkin method. In: *Proceedings of the 16th annual conference (international) on mechanical engineering, ISME, Kerman, May 14–16*

Fazelzadeh, S., Mazidi, A., Kalantari, H.: Bending-torsional flutter of wings with an attached mass subjected to a follower force. *J. Sound Vib.* 323(1–2), 148–162 (2009)

S. A. Fazelzadeh, P. Marzocca, A. Mazidi and A. R. Rahmati, The effect of multiple stores arrangement on flutter speed of a shear deformable wing subjected to pull-up angular velocity, *Aeronaut. J.* 113 (2009) 661–668

Fazelzadeh, S.A., Marzocca, P., Mazidi, A., Rashidi, E.: Divergence and flutter of shear deformable aircraft swept wings subjected to roll angular velocity. *Acta Mech.* 212, 151–165 (2010)

Hosseini, M. and Fazelzadeh, S.A. (2010), "Aerothermoelastic post-critical and vibration analysis of temperature-dependent functionally graded panels", *J. Thermal Stresses*, 33(12), 1188-1212.

Hosseini, M. and Fazelzadeh, S.A. (2011), "Thermomechanical stability analysis of functionally graded thin-walled cantilever pipe with flowing fluid subjected to axial load", *Int. J. Struct. Stabil. Dyn.*, 11(3), 513-534

B. Yazanpanah and S.A. Fazelzadeh, "Dynamic Response of a thin walled cantilever FGM pipe conveying fluid, Unidentified conference, 2011

Marzocca, P., Fazelzadeh, S.A. and Hosseini, M. (2011), "A review of nonlinear aero-thermo-elasticity of functionally graded panels", *J. Thermal Stresses*, 34(5-6), 536-568.

Fazelzadeh SA, Hosseini M, Madani H (2011) Thermal divergence of supersonic functionally graded plates. *J Therm Stresses* 34(8):759–777

Hosseini M, Fazelzadeh SA, Marzocca P (2011) Chaotic and bifurcation dynamic behavior of functionally graded curved panels under aero-thermal loads. *Int J Bifurc Chaos* 21(3):931–954

S.A. Fazelzadeh and B. Yazdanpanah, "Active flutter suppression of thin-walled cantilever functionally graded piezoelectric pipes conveying fluid", 20th Annual International Conference on Mechanical Engineering – ISME2012, 16-18 May, 2012, School of Mechanical Engineering, Shiraz University, Shiraz, Iran, ISME2012-2060

S.A. Fazelzadeh, E. Ghavanloo, "Nonlocal anisotropic elastic shell model for vibrations of single-walled carbon nanotubes with arbitrary chirality", *Compos. Struct.*, 94 (2012), pp. 1016-1022

Kazemi-Lari, M.A., Fazelzadeh, S.A., Ghavanloo, E.: Non-conservative instability of cantilever carbon nanotubes resting on viscoelastic foundation. *Phys. E* 44, 1623–1630 (2012)

S. Ahmad Fazelzadeh and Esmaeel Ghavanloo, "Coupled axisymmetric vibration of nonlocal fluid-filled closed spherical membrane shell", *Acta Mechanica*, Vol. 223, No. 9, pp 2011-2020, September 2012

Pouresmaeeli S., Fazelzadeh S.A., Ghavanloo E., 2012, Exact solution for nonlocal vibration of double-orthotropic nanoplates embedded in elastic medium, *Composites Part B: Engineering* 43: 3384-3390.

Ghavanloo E., Fazelzadeh S.A.: Vibration characteristics of single-walled carbon nanotubes based on an anisotropic elastic shell model including chirality effect. *Appl. Math. Model.* 36(10), 4988–5000 (2012)

Esmaeel Ghavanloo and S. Ahmad Fazelzadeh, "Nonlocal elasticity theory for radial vibration of nanoscale spherical shells", *European Journal of Mechanics*, Vol. 41, pp 37-42, September-October 2013

A. Mazidi, H. Kalantari and S. A. Fazelzadeh, Aeroelastic response of an aircraft wing with mounted engine subjected to time-dependent thrust, *J. Fluids Struct.* 39 (2013) 292–305.

Pouresmaeeli S., Ghavanloo E., Fazelzadeh S.A.: Vibration analysis of viscoelastic orthotropic nanoplates resting on viscoelastic medium. *Compos. Struct.* 96, 405–410 (2013)

Ghavanloo, E. and Fazelzadeh, S.A. (2013), "Radial vibration of free anisotropic nanoparticles based on nonlocal continuum mechanics", *Nanotechnology*, 24(7), 075702.

A. Mazidi and S. A. Fazelzadeh, Aeroelastic modeling and flutter prediction of swept wings carrying twin-powered-engines, *J. Aerospace Eng.* 26 (2013) 586–593.

Ghavanloo E, Fazelzadeh SA (2013) Free vibration analysis of orthotropic doubly curved shallow shells based on the gradient elasticity. *Compos B Eng* 45(1):1448–1457

Mohammad Ali Kazemi-Lari, Esmaeel Ghavanloo and S. Ahmad Fazelzadeh, "Structural instability of carbon nanotubes embedded in viscoelastic medium and subjected to distributed tangential load", *Journal of Mechanical Science and Technology*, Vol. 27, No. 7, pp 2085-2091, 2013

Vahid Azadi, Mohammad Azadi, S. Ahmad Fazelzadeh and Emad Azadi, "Active control of an FGM beam under follower force with piezoelectric sensors/actuators", *International Journal of Structural Stability and Dynamics*, Vol. 14, No. 2, 1350063, March 2014

S. Poursmaeeli, S. Fazelzadeh and E. Ghavanloo, Buckling analysis of spherical composite panels reinforced by carbon nanotube, *Mech. Adv. Compos. Struct.* 2 (2015) 135–144.

Ghavanloo, E., Ahmad Fazelzadeh, S., Rafii-Tabar, H.: Analysis of radial breathing-mode of nanostructures with various morphologies: a critical review. *Int. Mater. Rev.* 60, 312–329 (2015)

Esmael Ghavanloo and S. Ahmad Fazelzadeh, "Evaluation of nonlocal parameter for single-walled carbon nanotubes with arbitrary chirality", *Meccanica*, May 2015

Ghavanloo E, Fazelzadeh SA (2015) Nonlocal shell model for predicting axisymmetric vibration of spherical shell-like nanostructures. *Mech Adv Mater Struct* 22:597–603

Fazelzadeh, S.A., Poursmaeeli, S., Ghavanloo, E.: Aeroelastic characteristics of functionally graded carbon nanotube-reinforced composite plates under a supersonic flow. *Comput. Method. Appl. Mech. Eng.* 285, 714–729 (2015)

M. A. Kazemi-Lari and S. A. Fazelzadeh, Flexural–torsional flutter analysis of a deep cantilever beam subjected to a partially distributed lateral force, *Acta Mech.* 226 (5) (2015) 1379–1393.

Rafii-Tabar H, Ghavanloo E, Fazelzadeh SA (2016) Nonlocal continuum-based modeling of mechanical characteristics of nanoscopic structures. *Phys Reports -Rev. Sec. Phys. Lett* 638:1–97

Karimi-Nobandegani, A., Fazelzadeh, S.A., Ghavanloo, E.: Effect of uniformly distributed tangential follower force on the stability of rotating cantilever tube conveying fluid. *Latin Am. J. Solids Struct.* 13(2), 365–377 (2016)

F. Moghaddam, E. Ghavanloo, and S. A. Fazelzadeh, "Effect of carbon nanotube geometries on mechanical properties of nanocomposite via nanoscale representative volume element," *J. Solid Mech.*, vol. 8, pp. 568–577, 2016.

S. Poursmaeeli and S.A. Fazelzadeh, "Frequency analysis of doubly curved functionally graded carbon nanotube-reinforced composite panels", *Acta Mechanica*, Vol. 227, No. 10, pp 2765-2794, October 2016

Esmael Ghavanloo, S. Ahmad Fazelzadeh and Saeed Sohrabpour, "Buckling analysis of nonlocal anisotropic thin-walled cylindrical shells subject to combined loading", *ASCE Journal of Engineering Mechanics*, Vol. 142, No. 12, December 2016

S. Poursmaeeli and S. A. Fazelzadeh, "Uncertain buckling and sensitivity analysis of functionally graded carbon nanotube-reinforced composite beam", *Int. J. Appl. Mechanics* 09(5), 1750071 (2017) [17 pages] July 2017

S. A. Fazelzadeh, M. Azadi and E. Azadi, Suppression of nonlinear aeroelastic vibration of a wing/store under gust effects using an adaptive-robust controller, *J. Vib. Control.* 23 (7) (2017) 1206–1217.

A. Karimi-Nobandegani, S. A. Fazelzadeh and E. Ghavanloo, Flutter instability of cracked rotating non-uniform beams subjected to distributed follower force, *Int. J. Struct. Stability Dynam.* 18 (1) (2018) 1850001.

S. Poursmaeeli, S.A. Fazelzadeh, E. Ghavanloo and P. Marzocca, "Uncertainty propagation in vibrational characteristics of functionally graded carbon nanotube-reinforced composite shell panels", *International Journal of Mechanical Sciences*, Vol. 149, pp 549-558, December 2018

S. Ahmad Fazelzadeh, Sajjad Rahmani, Esmael Ghavanloo and Pier Marzocca, "Thermoelastic vibration of doubly-curved nano-composite shells reinforced by graphene nanoplatelets", *Journal of Thermal Stresses*, Vol. 42, No. 1, pp 1-17, 2019