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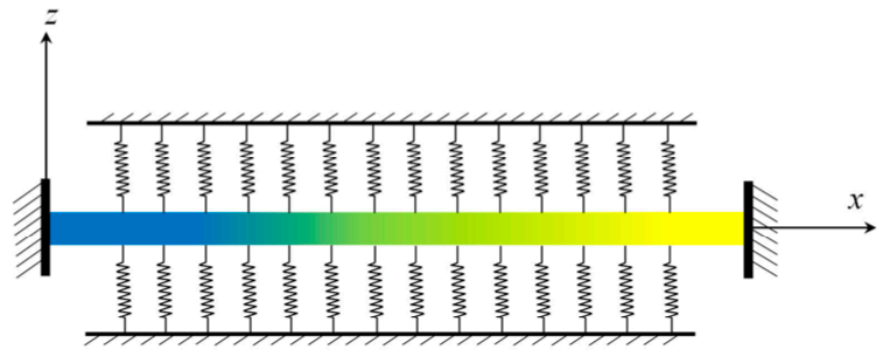


Figure 1. Schematic of a perfect, elastically-supported, axially-functionally-graded (AFG) viscoelastic beam.

From: Alireza Gholipour, Mergen H. Ghaayesh and Yueqiang Zhang, “A comparison between elastic and viscoelastic asymmetric dynamics of elastically supported AFG beams”, *Vibration*, Vol. 2, pp 3-17, 2019

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Selected Publications:

- Gholipour A., Limperopoulos C., Clancy S., Clouchoux A., Akhondi-Asl C., Estroff J.A., Warfield S.K. Construction of a deformable spatiotemporal MRI atlas of the fetal brain: Evaluation of similarity metrics and deformation models MICCAI (2014)
- A. Gholipour, H. Farokhi, M.H. Ghayesh, In-plane and out-of-plane nonlinear size-dependent dynamics of microplates, *Nonlinear Dynamics*, 79 (2015), pp. 1771–1785
- Mergen H. Ghayesh, Hamed Farokhi and Alireza Gholipour, “Oscillations of functionally graded microbeams”, *International Journal of Engineering Science*, Vol. 110, pp 35-53, January 2017
- Hamed Farokhi, Mergen H. Ghayesh, Alireza Gholipour and Shahid Hussain, “Motion characteristics of bilayered extensible Timoshenko microbeams”, *International Journal of Engineering Science*, Vol. 112, pp 1-17, March 2017
- Mergen Ghayesh, Hamed Farokhi, Alireza Gholipour and Mohammad Tavallaeinejad, “Dynamic characterization of functionally graded imperfect Kirchhoff microplates”, *Composite Structures*, Vol. 179, 1 April 2017
- M. H. Ghayesh, H. Farokhi, A. Gholipour, and M. Tavallaeinejad, “Nonlinear bending and forced vibrations of axially functionally graded tapered microbeams,” *Int. J. Eng. Sci.*, vol. 120, pp. 51–62, 2017
- M.H. Ghayesh, H. Farokhi, A. Gholipour, Coupled vibrations of functionally graded Timoshenko microbeams, *Eur. J. Mech. Solid.*, 65 (2017), pp. 289-300
- Mergen H. Ghayesh, Hamed Farokhi and Alireza Gholipour, “Vibration analysis of geometrically imperfect three-layered shear-deformable microbeams”, *International Journal of Mechanical Sciences*, Vol. 122, pp 370-383, March 2017
- Hamed Farokhi, Mergen H. Ghayesh and Alireza Gholipour, “Dynamics of functionally graded micro-cantilevers”, *International Journal of Engineering Science*, Vol. 115, pp 117-130, June 2017
- Mergen Ghayesh, Hamed Farokhi and Alireza Gholipour, “Large-amplitude dynamics of a functionally graded microcantilever with an intermediate spring-support and a point-mass”, *Acta Mechanica*, Vol. 228, 17 August 2017

Hamed Farokhi, Mergen H. Ghayesh, Alireza Gholipour and Mohammad Tavallaeinejad, "Nonlinear oscillations of viscoelastic microplates", *International Journal of Engineering Science*, Vol. 118, pp 56-69, September 2017

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Ghayesh, M. H., Farokhi, H., Gholipour, A., Hussain, S. and Arjomandi, M. [2017] "Resonance responses of geometrically imperfect functionally graded extensible microbeams," *Journal of Computational and Nonlinear Dynamics* 12(5), 051002 (12 pages).

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Mergen H. Ghayesh, Hamed Farokhi, Alireza Gholipour and Mohammad Tavallaeinejad, "Nonlinear oscillations of functionally graded microplates", *International Journal of Engineering Science*, Vol. 122, pp 56-72, January 2018

Alireza Gholipour, Mergen H. Ghayesh and Anthony Zander, "Nonlinear biomechanics of bifurcated atherosclerotic coronary arteries", *International Journal of Engineering Science*, Vol. 133, pp 60-83, December 2018

A Gholipour, MH Ghayesh, A Zander, R Mahajan, Three-dimensional biomechanics of coronary arteries, *Int J Eng Sci*, 130 (2018), pp. 93-114

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