



Professor Mergen H. Ghayesh

See:

<https://www.adelaide.edu.au/directory/mergen.ghayesh>

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https://www.researchgate.net/scientific-contributions/78557425_Mergen_H_Ghayesh

School of Mechanical Engineering
The University of Adelaide, Australia

Selected Publications:

Ghayesh, M.H. and Paidoussis, M.P. (2010), "Three-dimensional dynamics of a cantilevered pipe conveying fluid, additionally supported by an intermediate spring array", *Int. J. Nonlin. Mech.*, 45, 507-524

Ghayesh, M.H., Paidoussis, M.P., Modarres-Sadeghi, Y.: Three-dimensional dynamics of a fluid-conveying cantilevered pipe fitted with an additional spring-support and an end-mass. *J. Sound Vib.* 330, 2869–2899 (2011)

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Mergen H. Ghayesh, Hossein A. Kafiabad and Tyler Reid, "Sub- and super-critical nonlinear dynamics of a harmonically excited axially moving beam", *International Journal of Solids and Structures*, Vol. 49, pp 227-243, 2012

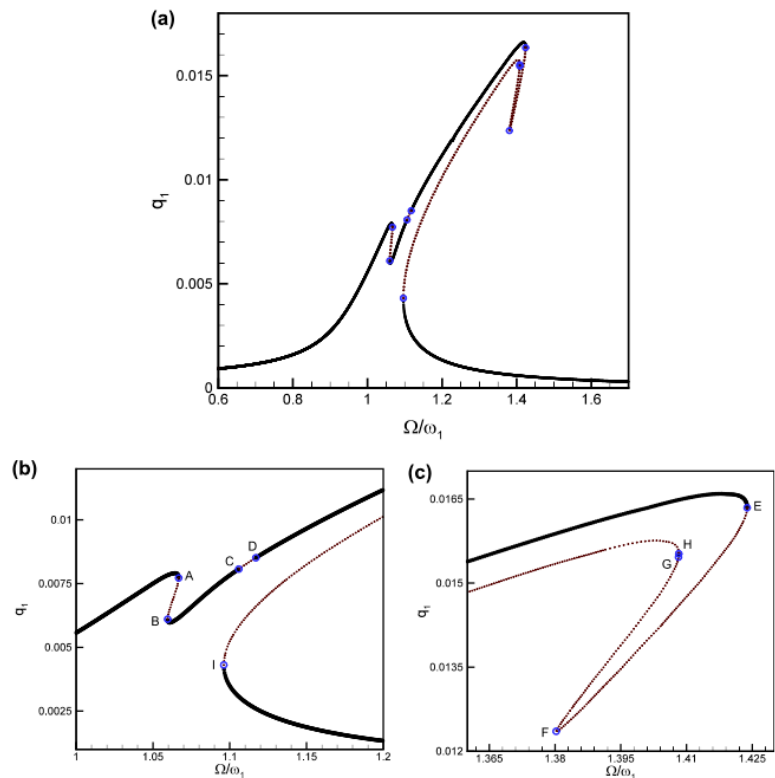


Fig. 4. The amplitude–frequency response of the system associated with Section 3.2 in the driven mode possessing a three-to-one internal resonance, i.e. $\omega_2 = 3\omega_1$; (a) the amplitude of the driven mode; (b, c) magnification of some regions of (a). Bold line and dotted lines represent the stable and unstable solutions, respectively.

From: Mergen H. Ghayesh, Hossein A. Kafiabad and Tyler Reid, "Sub- and super-critical nonlinear dynamics of a harmonically excited axially moving beam", *International Journal of Solids and Structures*, Vol. 49, pp 227-243, 2012

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M.H. Ghayesh, H. Farokhi, M. Amabili, Nonlinear behaviour of electrically actuated MEMS resonators, *International Journal of Engineering Science*, 71 (2013), pp. 137–155

M.H. Ghayesh, H. Farokhi, M. Amabili, In-plane and out-of-plane motion characteristics of microbeams with modal interactions, *Composites Part B*, 60 (2014), pp. 423–439

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Mergen H. Ghayesh and Hamed Farokhi, “Global dynamics of imperfect axially forced microbeams”, *International Journal of Engineering Science*, Vol. 115, pp 102-116, June 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

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