



Professor Jihong Wen

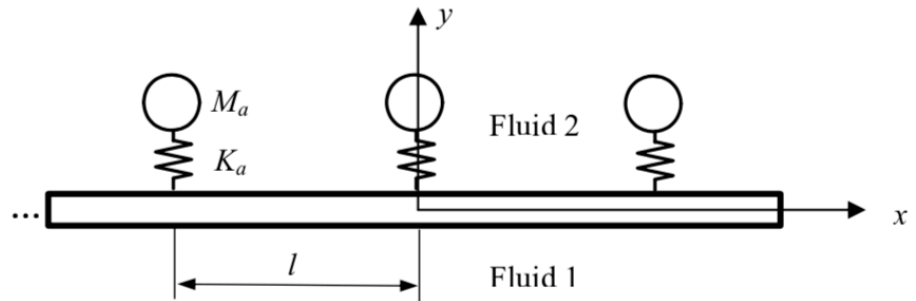


Figure 1. A beam with periodically attached vibration absorbers.

From: Yong Xiao, Brian R. Mace, Jihong Wen and Xisen Wen, “Beams with periodically attached vibration absorbers: Free wave propagation, forced vibration and sound radiation”, The 17th International Congress on Sound and Vibration (ICSV 17), July 18-22, Cairo, 2010

See:

<https://scholar.google.com.hk/citations?user=wD4I6NkAAAAJ&hl=en>

https://www.researchgate.net/scientific-contributions/2118705372_Jihong_Wen

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Selected Publications:

Yu, D. L., Wen, J. H., Zhao, H. G., Liu, Y. Z., and Wen, X. S., 2008, “Vibration Reduction by Using the Idea of Phononic Crystals in a Pipe-Conveying Fluid,” *J. Sound Vib.*, 318 (1–2), pp. 193–205.

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D. L. Yu, J. H. Wen, H. G. Zhao, Y. Z. Liu, and X. S. Wen, “Flexural vibration band gap in a periodic fluid-conveying pipe system based on the Timoshenko beam theory,” *J. Vib. Acoust.*, vol. 133, pp. 014502, 2011.

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Huijie Shen, Jihong Wen, Dianlong Yu, Meisam Asgari and Xisen Wen, “Control of sound and vibration of fluid-filled cylindrical shells via periodic design and active control”, *Journal of Sound and Vibration*, Vol. 332, No. 18, pp 4193-4209, September 2013

Shen, H.J., Wen, J.H., Yu, D.L., et al.: Stability of fluid-conveying periodic shells on an elastic foundation with external loads. *J. Fluids Struct.* **46**, 134–148 (2014)

Huijie Shen, Michael P. Paidoussis, Jihong Wen, Dianlong Yu and Xisen Wen, “The beam-mode stability of periodic functionally-graded-material shells conveying fluid”, *Journal of Sound and Vibration*, Vol. 333, No. 10, pp 2735-2749, May 2014

Shen, H.J., Wen, J.H., Yu, D.L., Wen, X.S.: Stability of clamped-clamped periodic functionally graded material shells conveying fluid. *J. Vib. Control* **21**(15), 3034–3046 (2015)

Xin Fang, Jihong Wen, Jianfei Yin, and Dianlong Yu "Wave propagation in metamaterial lattice sandwich plates", *Proc. SPIE 9805, Health Monitoring of Structural and Biological Systems 2016*, 98052R (1 April 2016); <https://doi.org/10.1117/12.2219018>

Xin Fang, Jihong Wen, Jianfel Yin and Dianlong Yu, “Broadband and tunable one-dimensional strongly nonlinear acoustic metamaterials: Theoretical study”, *Physical Review E*, Vol. 94, No. 5, November 2016

Yubao Song, Leping Feng, Zibo Liu, Jihong Wen and Dianlong Yu, “Suppression of the vibration and sound radiation of a sandwich plate via periodic design”, *International Journal of Mechanical Science*, Vol. 150, pp 744-754, January 2019

Jiajia Guo, Yong Xiao, Shufeng Zhang and Jihong Wen, “Bloch wave based method for dynamic homogenization and vibration analysis of lattice truss core sandwich structures”, *Composite Structures*, Vol. 229, Article 111437, 1 December 2019