

Professor Yongshou Liu

See:

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

School of Mechanics, Civil Engineering and Architecture
Northwestern Polytechnical University (NWPU), Xi'an, China

Selected Publications:

- Li, B. H., Gao, H. S., Zhai, H. B., Liu, Y. S. and Yue, Z. F. [2011] "Free vibration analysis of multi-span pipe conveying fluid with dynamic stiffness method," *Nuclear Engineering and Design* 241, 666–671.
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- Li, B. H., Gao, H. S., Liu, Y. S. and Yue, Z. F. [2012] "Transient response analysis of multi-span pipe conveying fluid," *Journal of Vibration and Control* 19, 2164–2176
- Hong-bo Zhai, Zi-yan Wu, Yong-shou Liu and Zhu-feng Yue, "The dynamic reliability analysis of pipe conveying fluid based on a refined response surface method", *Journal of Vibration and Control*, Online version 10 July 2013
- Zijun Zhang, Yongshou Liu and Baohui Li, "Free vibration analysis of fluid-conveying carbon nanotube via wave method", *Acta Mechanica Solida Sinica*, Vol. 27, No. 6, pp 626-634, December 2014
- Zijun Zhang, Yongshou Liu, Hailong Zhao and Wei Liu, "Topology optimized vibration control of a fluid-conveying carbon nanotube with non-uniform magnetic field", *International Journal of Applied Mechanics*, Vol. 7, No. 6, 1550092, December 2015
- Zhang, Z. J., Liu, Y. S., Zhao, H. L. and Liu, W. [2015] "Parametric vibrations of a pulsating-flow-conveying pipe composed of two different materials," *International Journal of Applied Mechanics* 7, 1550092.
- Deng, J. Q., Liu, Y. S., Zhang, Z. J. and Liu, W. [2017] "Dynamic behaviors of multi-span viscoelastic functionally graded material pipe conveying fluid," *Proceeding of the Institution of Mechanical Engineers Part C-Journal of Mechanical Engineering Science* 231(17), 3181–3192
- Jiaquan Deng, Yongshou Liu, Zijun Zhang and Wei Liu, "Stability analysis of multi-span viscoelastic functionally graded material pipes conveying fluid using a hybrid method", *European Journal of Mechanics – A/Solids*, Vol. 65, pp 257-270, September-October 2017
- Jiaquan Deng, Yongshou Liu and Wei Liu, "A hybrid method for transverse vibration of multi-span functionally graded material pipes conveying fluid with various volume fraction laws", *International Journal of Applied Mechanics*, Vol. 9, No. 7, 1750095, October 2017
- Jiaquan Deng, Yongshou Liu, Zijun Zhang and Wei Liu, "Size-dependent vibration and stability of multi-span viscoelastic functionally graded material nanopipes conveying fluid using a hybrid method", *Composite Structures*, Vol. 179, pp 590-600, November 2017

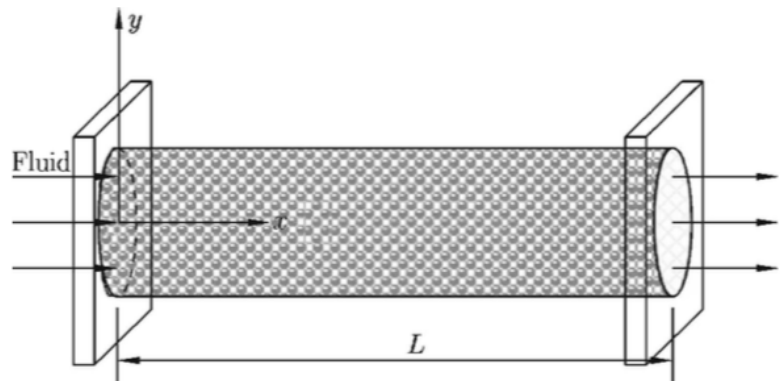


Fig. 1. CNT model with fixed constraints at both ends^[26]

From: Zijun Zhang, Yongshou Liu and Baohui Li, "Free vibration analysis of fluid-conveying carbon nanotube via wave method", *Acta Mechanica Solida Sinica*, Vol. 27, No. 6, pp 626-634, December 2014

Liu, H.C., Liu, Y.S., Dai, J.Y., Cheng, Q.: An improved model of carbon nanotube conveying flow by considering comprehensive effects of Knudsen number. *Microfluid. Nanofluidics* 22(6), 13 (2018)

Yuzhen Zhao, Yongshou Liu, Qing Guo and Baohui Li, “The resonance reliability and global sensitivity analysis of curved pipe conveying fluid based on TIS method”, *Mathematical Problems in Engineering*, Vol. 2018, Article ID 3980790

Qing Guo, Yongshou Liu, Yuzhen Zhao, Baohui Li and Qin, “Improved resonance reliability and global sensitivity analysis of multi-span pipes conveying fluid based on active learning Kriging model”, *International Journal of Pressure Vessels and Piping*, Vol. 170, pp 92-101, February 2019

Huichao Liu, Baohui Li and Yongshou Liu, “The inconsistency of nonlocal effect on carbon nanotube conveying fluid and a proposed solution based on local/nonlocal model”, *European Journal of Mechanics - A/Solids*, Vol. 78, Article 103837, November-December 2019

Jiayin Dai, Yongshou Liu, Huichao Liu, Changxu Miao and Guojun Tong, “A parametric study on thermo-mechanical vibration of axially functionally graded material pipe conveying fluid”, *International Journal of Mechanics and Materials in Design*, Vol. 15, No. 4, pp 715-726, December 2019