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Mechanical, Materials and Aerospace Engineering
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Education:

BEng in Engineering Mechanics received in 1982
 MEng in Engineering Mechanics received in 1985
 PhD in Structural Engineering received in 1989

Selected Publications:

- Ouyang, H., Mottershead, J.E., Cartmell, M.P., Friswell, M.I.: Friction-induced parametric resonances in discs: effect of a negative friction-velocity relationship. *J. Sound Vib.* 209(2), 251–263 (1998)
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- Ouyang, H., Nack, W., Yuan, Y., Chen, F.: Numerical analysis of automotive disc brake squeal: a review. *Int. J. Veh. Noise Vib.* 1(3–4), 231 (2005)
- Ouyang, H., Mottershead, J.E.: Dynamic instability of an elastic disk under the action of a rotating friction couple. *ASME J. Appl. Mech.* 71(6), 753–758 (2005)
- Stancioiu, D., Ouyang, H., Mottershead, J.N.: Vibration of a beam excited by a moving oscillator considering separation and reattachment. *J. Sound Vib.* 310(4–5), 1128–1140 (2008)
- Ouyang, H.: Moving-load dynamic problems: a tutorial (with a brief overview). *Mech. Syst. Signal Process.* 25(6), 2039–2060 (2011)
- K. Zhang, Z. Deng, H. Ouyang, J. Zhou, Design and homogenization of metal sandwich tubes with prismatic cores, *Structural Engineering and Mechanics* 45 (2013) 435–450.
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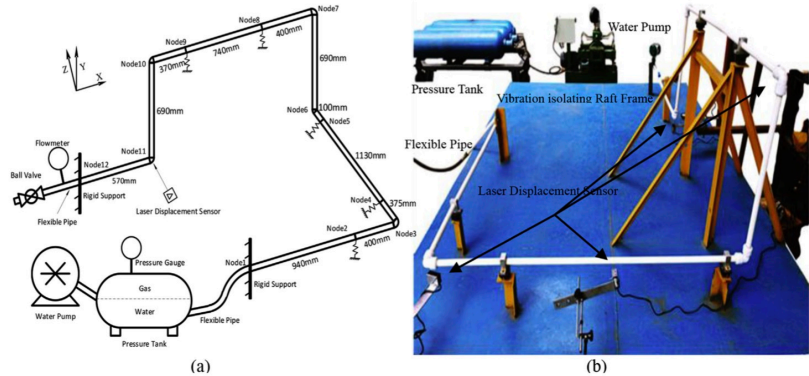


Fig. 8. A complex fluid-conveying pipe system: (a)The analytical model; (b)Experiment installation.

From: T. Zhang, H. Ouyang, C. Zhao and Y.J. Ding, “Vibration analysis of a complex fluid-conveying piping system with general boundary conditions using the receptance method”, *International Journal of Pressure Vessels and Piping*, Vol. 166, pp 84-93, September 2018

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- B. L. Lv, W. Y. Li and H. J. Ouyang, Moving force-induced vibration of a rotating beam with elastic boundary conditions, *Int. J. Struct. Stabil. Dyn.* 15 (1) (2015) 1450035
- Muhamad Norhisham Abdul Rani, Salmiah Kasolang, Mohd Hakimi Othman, Mohd Azmi Yunus and Wan Imaan Izhan Wan Iskandar Mirza, “Finite element modeling and modal based up-dating for the dynamic behaviour of a laser spot welded structure”, 23rd International Congress on Sound and Vibration (ICSV23), 10-14 July, 2016
- Zilin Li, H. Ouyang and Zhenqun Guan, “Friction-induced vibration of an elastic disc and a moving slider with separation and reattachment”, *Nonlinear Dynamics*, October 2016
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- Shancheng Cao, Huajiang Ouyang and Li Cheng, “Baseline-free multidamage identification in plate-like structures by using multiscale approach and low-rank modeling”, *Structural Control and Health Monitoring*, John Wiley & Sons, 2018, 2293
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