



Professor Hsien-Yuan Lin

See:

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

Dept. of Mechanical Engineering, Cheng Shiu University, Kaohsiung, Taiwan

Selected Publications:

- Lin, H.-Y., Tsai, Y.-C., On the natural frequencies and mode shapes of a uniform multispan beam carrying multiple point masses, *Structural Engineering and Mechanics* 21 (3) (2005) 351–367.
- Lin, H.-Y., Tsai, Y.-C., On the natural frequencies and mode shapes of a multi-step beam carrying a number of intermediate lumped masses and rotary inertias, *Structural Engineering and Mechanics* 22 (6) (2006) 701–717.
- Lin, H.-Y., Tsai, Y.-C., Free vibration analysis of a uniform multi-span beam carrying multiple spring-mass system, *Journal of Sound and Vibration* 302 (3) (2007) 442–456.
- Lin, H.-Y., Dynamic analysis of a multi-span uniform beam carrying a number of various concentrated elements, *Journal of Sound and Vibration* 309 (1–2) (2008) 262–275.
- Lin, H.-Y., On the natural frequencies and mode shapes of a multi-span and multi-step beam carrying a number of concentrated element, *Structural Engineering and Mechanics* 29 (5) (2008) 531–550.
- Lin, H.-Y., On the natural frequencies and mode shapes of a multispan Timoshenko beam carrying a number of various concentrated elements, *Journal of Sound and Vibration* 319 (1–2) (2009) 593–605.
- H.-Y. Lin, “An exact solution for free vibrations of a non-uniform beam carrying multiple elastic-supported rigid bars,” *Structural Engineering and Mechanics*, vol. 34, no. 4, pp. 399–416, 2010.
- H. Y. Lin and C. Y. Wang, “Free vibration analysis of a hybrid beam composed of multiple elastic beam segments and elastic-supported rigid bodies,” *Journal of Marine Science and Technology*, vol. 20, no. 5, pp. 525–533, 2012.
- Hsien-Yuan Lin, Jeng-Nan Lee and Wen-Hao Sung, “Vibration of an offshore structure having the form of a hollow column partially filled with multiple fluids and immersed in water”, *Journal of Applied Mathematics*, Vol. 2012, Article ID 158983, 16 pages, 2012

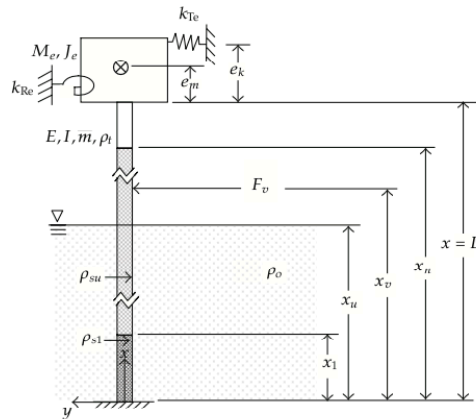


Figure 1: The sketch of an immersed hollow beam filled with fluids of different densities, subjected to a force, and carrying an eccentric tip mass supported by a translational and a rotational spring.

From: Hsien-Yuan Lin, Jeng-Nan Lee and Wen-Hao Sung, “Vibration of an offshore structure having the form of a hollow column partially filled with multiple fluids and immersed in water”, *Journal of Applied Mathematics*, Vol. 2012, Article ID 158983, 16 pages, 2012