



**Professor Jingxi Liu**

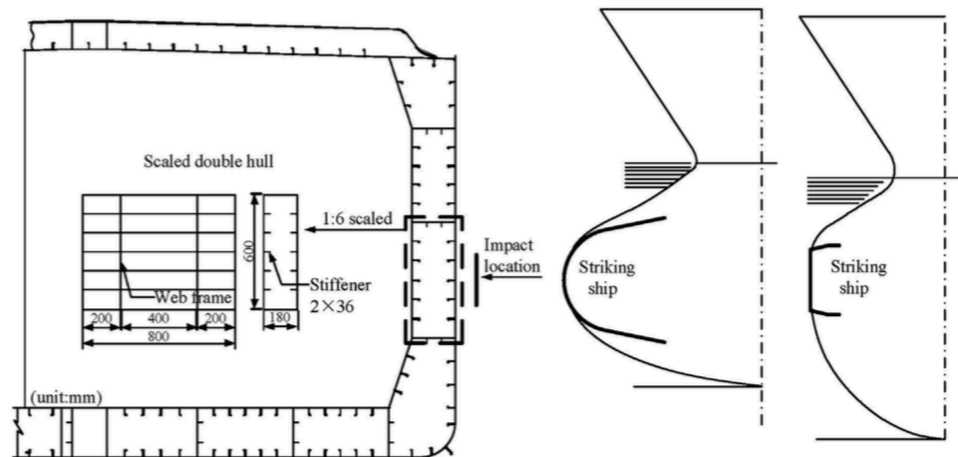


Fig. 1. Impact scenario and the scaled double hull.

From: Min Zhang, Jingxi Liu, Zhiqiang Hu and Yao Zhao, "Experimental and numerical investigation of the responses of scaled tanker side double-hull structures laterally punched by conical and knife edge indenters", *Marine Structures*, Vol. 61, pp 62-84, 2018

See:

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### Selected Publications:

- J. Yan, T. Y. Li, J. X. Liu, and X. Zhu, "Space harmonic analysis of sound radiation from a submerged periodic ring-stiffened cylindrical shell," *Applied Acoustics*, vol. 67, no. 8, pp. 743–755, 2006.
- X. Zhu, T.-Y. Li, Yuanjun Zhao and Jingxi Liu, "Investigating the power flow characteristics of plate with surface crack", *Gongcheng Lixue/Engineering Mechanics*, Vol. 24, pp 62-67, February 2007
- X. Zhu, T.-Y. Li, Yuanjun Zhao and Jingxi Liu, "Vibrational power flow characteristics of damaged circular cylindrical shells", *Journal of Ship Mechanics*, Vol. 11, No. 2, pp 284-292, April 2007
- J. Yan, T.-Y. Li, Jingxi Liu and X. Zhu, "Power flow analysis of a submerged cylindrical shell coated by viscoelastic materials with wave propagation approach", *Journal name not given*, Vol. 11, pp 780-787, October 2007
- J. Yan, T.Y. Li, Jingxi Liu and X. Zhu, "Input power flow in a submerged infinite cylindrical shell with doubly periodic supports", *Applied Acoustics*, Vol. 69, No. 8, pp 681-690, August 2008
- J. Yan, T.-Y. Li, T.-G. Liu and Jingxi Liu, "Experimental investigation on vibrational power flow from a ring-stiffened cylindrical shell immersed in flow field", *Journal of Ship Mechanics*, Vol. 12, No. 5, pp 824-829, October 2008
- Z.-Z. Liu, T.-Y. Li and Jingxi Liu, "Characteristics of the frequency dispersion in cylindrical shells filled with fluid considering hydrostatic pressure", *Journal of Ship Mechanics*, Vol. 13, No. 4, pp 635-640, August 2009
- Q.-Z. Jin, T.-Y. Li, Yuanjun Zhao and Jingxi Liu, "Active control of the power flow put into the cylindrical shells by discretely distributed piezoelectric actuator", *Journal of Ship Mechanics*, Vol. 14, No. 1, pp 157-167, February 2010
- Q.-Z. Jin, T.-Y. Li, Yuanjun Zhao and Jingxi Liu, "Active control of input power flow to the cylindrical shells", *Journal of Ship Mechanics*, Vol. 14, No. 9, pp 1039-1051, September 2010
- Zhu, M.C., Liu, J.X., Wang, Q.X. and Feng, X.F. (2010), "Experimental research on square steel tubular columns filled with steel-reinforced self-consolidating high-strength concrete under axial load", *Eng. Struct.*, 32(8), 2278-2286.

L. L. Zhang, J. X. Liu, X. Q. Fang and G. Q. Nie , Size-dependent dispersion characteristics in piezoelectric nanoplates with surface effects, *Physica E* 57 (2014) 169–174.

L. L. Zhang, J. X. Liu, X. Q. Fang and G. Q. Nie , Effects of surface piezoelectricity and nonlocal scale on wave propagation in piezoelectric nanoplates, *Eur. J. Mech.-A/Solids* 46 (2014) 22–29

Jiayi Liu, Wufeng Qiao, Jingxi Liu, De Xie, Zhengong Zhou, Li Ma, Linzhi Wu, The compressive responses of glass fiber composite pyramidal truss cores sandwich panel at different temperatures, *Compos. Part A Appl. Sci. Manuf.* 73 (2015) 93-100

Jiayi Liu, Wufeng Qiao, Jingxi Liu, De Xie, Zhengong Zhou, Li Ma and Linzhi Wu, “The compressive responses of glass fiber composite pyramidal truss cores sandwich panel at different temperatures”, *Composites Part A Applied Science and Manufacturing*, Vol. 73, March 2015

Jiayi Liu, Wufeng Qiao, Jingxi Liu, De Xie, Zhengong Zhou, Linzhi Wu and Li Ma, “High temperature indentation behaviors of carbon fiber composite pyramidal truss structures”, *Composite Structures*, Vol. 131` , May 2015

Wentao He, Jingxi Liu, Bo Tao and De Xie, “Experimental and numerical research on the low velocity impact behavior of hybrid corrugated core sandwich structures”, *Composite Structures*, Vol. 158, September 2016

Jinxi Liu, Wentao He, De Xie and Bo Tao, “The effect of impactor shape on the low-velocity impact behavior of hybrid corrugated core sandwich structures”, *Composites Part B Engineering*, Vol. 111, November 2016

M. Zhang, Jinxi Liu and Z. Hu, “Experimental and numerical analysis of tanker double-hull structures punched by a wedge indenter”, *Proceedings of the 6th International Conference on Marine Structures (Marstruct 2017)*, April 2017

J. D. Wang, C. L. Wang, and J. X. Liu, “Sloshing reduction in a pitching circular cylindrical container by multiple rigid annular baffles,” *Ocean Engineering*, vol. 171, pp. 241–249, 2018.

X. Q. Fang, C. S. Zhu, J. X. Liu, and J. Zhao, “Surface energy effect on nonlinear buckling and postbuckling behavior of functionally graded piezoelectric cylindrical nanoshells under lateral pressure,” *Mater. Res. Express.*, vol. 5, no. 4, pp. 045017, 2018.

Wentao He, Jingxi Liu, Shuqing Wang and De Xie, “Low-velocity impact response and post-impact flexural behaviour of composite sandwich structures with corrugated cores”, *Composite Structures*, Vol. 189, January 2018

Jingxi Liu, Wentao He and De Xie, “Study on vibrational power flow propagation characteristics in a laminated composite cylindrical shell filled with fluid”, *Shock and Vibration*, Article ID 4026140, Vol. 2018

Min Zhang, Jingxi Liu, Zhiqiang Hu and Yao Zhao, “On resistance of a rectangular thin plate under lateral indentation by a wedge indenter”, *Ships and Offshore Structures*, Vol. 13, No 307, pp 1-13, March 2018

Wentao He, Jingxi Liu, Shuqing Wang and De Xie, “Low-velocity impact response and post-impact flexural behaviour of composite sandwich structures with corrugated cores”, *Composite Structures*, Vol. 189 pp 37-53, April 2018

Min Zhang, Jingxi Liu, Zhiqiang Hu and Yao Zhao, “Experimental and numerical investigation of the responses of scaled tanker side double-hull structures laterally punched by conical and knife edge indenters”, *Marine Structures*, Vol. 61, pp 62-84, 2018

Fangjuan Duan, Jingxi Liu, Ge Wang and Zholong Yu, “Dynamic behaviour of aluminium alloy plates with surface cracks subjected to repeated impacts”, *Ships and Offshore Structures*, August 2018

Rong Yu, Jingzi Liu, Wei Luo and Wentao He, “Effects of geometric configurations of corrugated core on the local impact and planar compression of sandwich panels”, *Composites Part B Engineering*, Vol. 152, August 2018

Wentao He, Jingxi Liu, Shuqing Wang and De Xie, “Low-velocity impact behavior of X-frame core sandwich structures – Experimental and numerical investigation”, *Thin-Walled Structures*, Vol. 131, pp 718-735, October 2018.

Wentao He, Lu Yao, Xiangjian Meng, Guangyong Sun, De Xie and Jingxi Liu, “Effect of structural parameters on low-velocity impact behavior of aluminum honeycomb sandwich structures with CFRP face sheets”, *Thin-Walled Structures*, Vol. 137, pp 411-432, April 2019

Rong Yu, Wei Luo, Jingxi Liu, Zhiyuan Shen and Wentao He, “Effect of core materials the low-velocity impact behaviour of trapezoidal corrugated sandwich panels”, *International Journal of Crashworthiness*, May 2019