



Professor Bin Liu

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School of Transportation
Wuhan University of Technology, China

Education:

2012-1015 PhD Naval Architecture and Marine Engineering, University of Lisbon, Portugal

2007-2009 MS Design and Construction of Naval Architecture and Ocean Structure, Wuhan U. of Tech

2003-2007 BS Naval Architecture and Ocean Engineering, Wuhan University of Technology

Selected Publications:

R. Villavicencio, B. Liu and C. Guedes Soares, "Response of stiffeners with attached plate subjected to lateral impact", *Maritime Engineering and Technology*, 2012

B. Liu and C. Guedes Soares, "Study on the ultimate torsional strength of ship hulls", *Maritime Engineering and Technology*, 2012

B. Liu, R. Villavicencio and C. Guedes Soares, "Failure characteristics of strength-equivalent aluminium and steel plates in impact conditions", *Analysis and Design of Marine Structures*, 2013

Bin Liu, Richard Villavicencio and C. Guedes Soares, "Plastic response and failure prediction of stiffened plates punched by a wedge", *Proceedings of the ASME 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2013)*, June 9-14, 2013, Nantes, France

Ran Xu, Yu Wang, Bin Liu and Daining Fang "Mechanics interpretation on the bending stiffness and wrinkled pattern of graphene", *J. Appl. Mech.* 2013;80(4):040910-040910-5. doi:10.1115/1.4024178. July 2013

B. Liu and C. Guedes Soares, "Uncertainty analysis of the energy absorbed in beam and plate elements under impulsive loading", *Analysis and Design of Marine Structures*, 2015

Bin Liu and C. Guedes Soares, "Plastic response and failure of rectangular cross-section tubes subjected to transverse quasi-static and low-velocity impact loads", *International Journal of Mechanical Sciences*, Vol. 90, pp 213-227, January 2015

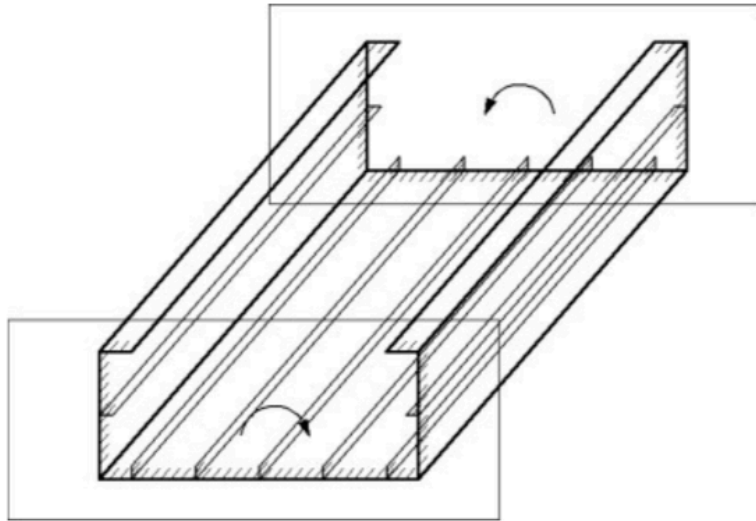


Figure 13. Boundary conditions of simple model.

From: B. Liu and C. Guedes Soares, "Study on the ultimate torsional strength of ship hulls", *Maritime Engineering and Technology*, 2012

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Kun Liu, Bin Liu, C. Guedes Soares and Zili Wang, "Experimental and numerical analysis of a laterally impacted square steel plate", *Maritime Technology and Engineering* 3, 2016

F. Alizadeh, B. Liu and C. Guedes Soares, "Experimental and numerical response and failure of laterally impacted composite circular plates", *Maritime Technology and Engineering* 3, 2016

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Zhiqiang Fan, Yingbin Liu and Peng Xu, "Blast resistance of metallic sandwich panels subjected to proximity underwater explosion", *International Journal of Impact Engineering*, Vol. 93, pp 128-135, July 2016

Bin Liu and C. Guedes Soares, "Assessment of the strength of double-hull tanker side structures in minor ship collisions", *Engineering Structures*, Vol. 120, pp 1-12, August 2016

Bin Liu, Wei Fan, Wei Guo, Baisheng Chen and Rong Liu, "Experimental investigation and improved FE modeling of axially-loaded circular RC columns under lateral impact loading", *Engineering Structures*, Vol. 152, pp 619-642, December 2017

Kun Liu, Bin Liu, R. Villavicencio, Zili Wang & C. Guedes Soares (2017): Assessment of material strain rate effects on square steel plates under lateral dynamic impact loads, *Ships and Offshore Structures*, DOI: 10.1080/17445302.2017.1354659

Jonas W. Ringsberg, Joergen Amdahl, Bai Qiao Chen, Sang-Rai Cho, Soeren Ehlers, Zhiqiang Hu, Jan M. Kubiczek, Mihkel Koergesaar, Bin Liu, Janis N. Marinatos, Karol Niklas, Josko Parunov, Bruce W.T. Quinton, Smiljko Rudan, Manolis Samuelides, Carlos Guedes Soares, Kristjan Tabri, Richard Villavicencio, . . .

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