



Professor Hassan Karampour

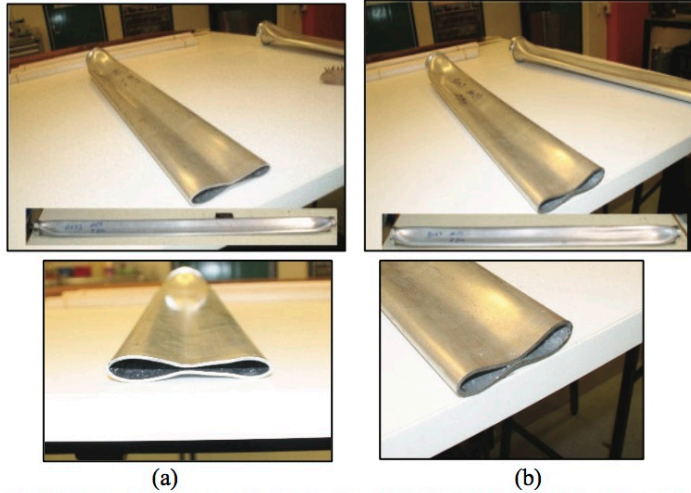


Fig.3 (a) Buckle shape of single pipe (60×2mm), (b) Buckle shape of single pipe (80×3mm)

From: Mahmoud Alrsai and Hassan Karampour, “Propagation buckling of pipe-in-pipe systems, an experimental study”, Proceedings of the Twelfth Pacific-Asia Offshore Mechanics Symposium, Gold Coast, Australia, October 4-7, 2016

See:

<https://www.griffith.edu.au/engineering-information-technology/griffith-school-engineering/staff/hassan-karampour>

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

https://scholar.google.com.au/citations?user=A_WP52kAAAAJ&hl=en

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Biography and Research Expertise:

Dr Hassan Karampour holds a PhD in structural engineering from the University of Queensland, Australia, Master's Degree in structural engineering from National University of Malaysia and Bachelor of Civil Engineering from Shiraz University in Iran. He has worked as structural design engineer for more than 6 years in Iran and Australia, delivering variety of engineering consultancy analyses and services. His research interests lie in area of applied mechanics with a focus on steel structures.

In his Master's research Dr Karampour utilised finite element method and finite difference method to study lateral-torsional buckling of steel beams with web openings. During his PhD research, he investigated major buckling problems namely; lateral buckling, upheaval buckling, propagation buckling and buckle interaction in deep sub-sea pipelines using analytical, experimental and numerical methods. He helped develop a new concept; “textured pipe” suitable for HP/HT ultra-deep subsea pipelines.

Dr Karampour aims to pursue research in innovative, optimal, safe and sustainable design of engineering structures, addressing new challenges in field of structural engineering.

- Computational and Applied Mechanics
- Numerical Methods (Finite Element Method and Finite Difference Method)
- Stability of Structures
- Buckling of thin-walled structures, plates and shells
- Structural integrity of sub-sea pipelines and risers

Selected Publications:

- Hassan Karampour, Mahmoud Alrsai, Faris Albermani, Hong Guan and Dong-Sheng Jeng, “Propagation buckling in subsea pipe-in-pipe systems”, ASCE Journal of Engineering Mechanics, Vol. 143, No. 9, September 2017
- Karampour, H., & Guan, H. (2017). On Collapse of Pipe-in-Pipe Systems under External Pressure. Presented at the ACMSM24, Perth, Australia (2017).
- Xu, Y., Guan, H., Karampour, H., Loo, Y.-C., & Zhou, X. (2017). Earthquake-Resistant Performance of a Steel Frame Model with Inverse-Chevron Buckling Restrained Braces. Presented at the ACMSM24, Perth, Australia (2017).
- Karampour, H., & Albermani, F. (2016). Buckle interaction in textured deep subsea pipelines. *Ships and Offshore Structures*, 11(6), 625–635.
- Karampour, H., Alrsai, M., Guan, H., & Albermani, F. (2016). Test Procedures for Investigating the Buckle Propagation of Pipe-in-Pipe Systems. Presented at the SIF 2016, Adelaide, Australia (2016).
- Karampour, H., Gilbert, B., Guan, H., Gunalan, S., & Howell, S. (2016). Implementing Active Learning Approaches in order to Enhance Learning of Students with Diverse Backgrounds in a First Year Engineering Course. Presented at the AAEE 2016, Coffs Harbour, Australia (2016).
- Stephan, P., Love, C., Albermani, F., & Karampour, H. (2016). Experimental study on confined buckle propagation. *International Journal of Advanced Steel Construction*, 12(1), 44–45.
- Mahmoud Alrsai and Hassan Karampour, “Propagation buckling of pipe-in-pipe systems, an experimental study”, Proceedings of the Twelfth Pacific-Asia Offshore Mechanics Symposium, Gold Coast, Australia, October 4-7, 2016
- Gunalan, S., Guan, H., Gilbert, B., & Karampour, H. (2015). Design of Final Year Capstone Project Course to Maximise Student Learning Experience and Outcomes. Presented at the AAEE 2015, Geelong, Australia (2015).
- Karampour, H., Albermani, F., & Major, P. (2015). Interaction Between Lateral Buckling and Propagation Buckling in Textured Deep Subsea Pipelines. Presented at the OMAE2015, St. Johns, NL, Canada (2015).
- Albermani, F., Khalilpasha, H., & Karampour, H. (2014). Propagation buckling in deep sub-sea pipelines. *Engineering Structures*, 33, 2547–2553.
- Baldock, T. E., Karampour, H., Sleep, R., Vyltla, A., Albermani, F., Golshani, A., ... Mumby, P. J. (2014). Resilience of branching and massive corals to wave loading under sea level rise – A coupled computational fluid dynamics-structural analysis. *Marine Pollution Bulletin*, 86, 91–101.
- Karampour, H., & Albermani, F. (2014). Experimental and numerical investigations of buckle interaction in subsea pipelines. *Engineering Structures*, 66, 81–88.
- Karampour, H., & Albermani, F. (2014). Interaction between Upheaval/Lateral and Propagation Buckling in Subsea Pipelines. *Applied Mechanics and Materials*, 553, 434–438.
- Karampour, H., Albermani, F., & Gross, J. (2014). On lateral and upheaval buckling of subsea pipelines. *Engineering Structures*, 52, 317–330.

- Karampour, H., Albermani, F., & Veidt, M. (2013). Buckle interaction in deep subsea pipelines. *Thin-Walled Structures*, 72, 113–120.
- F. Albermani, H. Khalilpasha and H. Karampour, Propagation buckling in deep sub-sea pipelines, *Eng. Struct.*, 33 (2011) 2547–2553.