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Selected Publications:

Qiao, P., Davalos, J.F., and Wang, J., 2001 "Local buckling of composite FRP shapes by discrete plate analysis." J. Struct. Eng., 127, pp. 245-255.

Wang, J. H., Watanabe, A. and Koizumi, A.: A study on the buckling behavior and design of ring-stiffened pipes under external pressure for water pipeline constructed in deep underground, Journal of Tunnel Engineering, JSCE, Vol.16, pp.133-143, 2006.

Wang, J.H., Koizumi, A. and Watanabe, A.: On Buckling of Inner Steel Pipe under External Pressure for Water Supply Lines Constructed in Shield-driven Tunnel, Proceedings of the tenth East Asia-Pacific Conference on Structural Engineering & Construction (EASEC-10), Bangkok, Thailand, Vol. 4, pp. 341-356, Aug. 3-5, 2006.

Wang, J. H. and Koizumi, A.: Theoretical study on buckling of deep water pipeline under external hydrostatic pressure, JSCE Journals, Division A, Vol.64, No.3, pp.588-602, 2008.

J.H. Wang, A. Koizumi, Buckling of cylindrical shells with longitudinal joints under external pressure, Thin-Walled Structures, 48(12), 2010, 897-904.

Zhen, L., Chen, J., Wang, J., and Qiao, P., "Elastic Buckling Analysis of Steel Pipe-Jacking Embedded in the Winkler Foundation. Tunneling and Underground Construction", ASCE Geo-Shanghai 2014 Proceedings, pp. 481-490, May 26-28, 2014

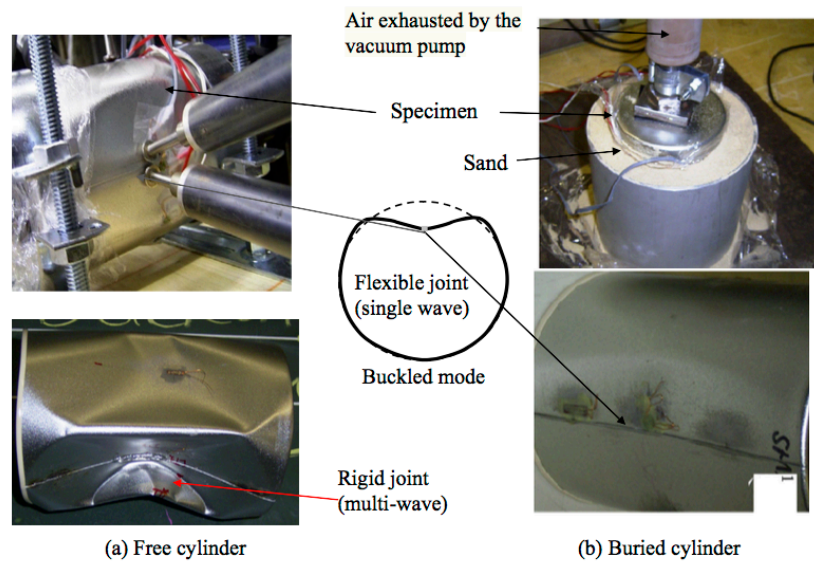


Fig. 1. Experimental profile and buckling of cylindrical shells with one flexible joint.

From: Jian hong Wang, W.J. Zhang, Ziang Guo and A. Koizumi, "Mechanism for buckling of shield tunnel linings under hydrostatic pressure", Tunneling and Underground Space Technology, 06/2015, Vol. 49, pp 144-155

Jian hong Wang, “A framework for maintenance of shield tunnels with secondary linings using strength and life-cycle cost as indicators, IALCCE Conference, Tokyo, Japan, 2014

Jian hong Wang, W.J. Zhang, Ziang Guo and A. Koizumi, “Mechanism for buckling of shield tunnel linings under hydrostatic pressure”, Tunneling and Underground Space Technology, 06/2015, Vol. 49, pp 144-155

Jian hong Wang, Investigation of seismic performance of aging shield-driven tunnel using 3D-FEM Analysis”, Nippon Koei Technical Forum, February 2015