



Professor Yongjiu Shi

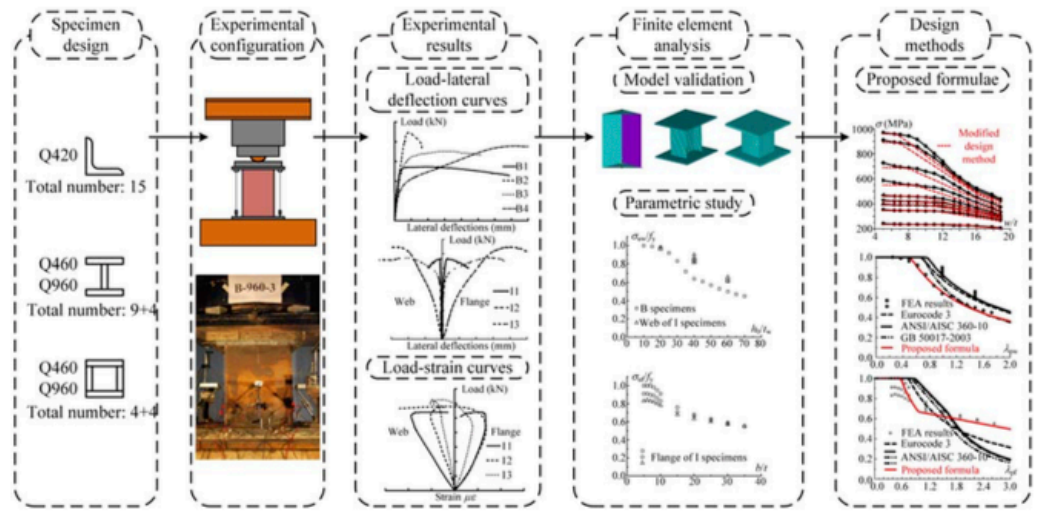


Figure 6. Research process for local buckling behavior of high strength steel columns (Lin, 2012; Shi *et al.*, 2012b, 2012c, 2013f).

From: Gang Shi, Fangxin Hu and Yongjiu Shi, “Recent research advances of high strength steel structures and codification of design specification in China”, International Journal of Steel Structures, Vol. 14, No. 4, pp 873-887, December 2014

See:
<http://www.civil.tsinghua.edu.cn/en/ce/essay/531/2079.html>
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Education:

BSc Sept.1979 – July.1984 Civil Engineering, Tsinghua University
 Graduate Sept.1984 – July.1985 Civil Engineering, Tsinghua University
 Ph.D Sept.1985 – July.1989 Civil Engineering, Heriot-Watt University

Work Experience:

1989-1992 Structural Engineer, The Steel Construction Institute, UK
 1992-1993 Lecturer, Depart. of Civil Engineering, Tsinghua University
 1994-1999 Associate Professor, Depart. of Civil Engineering, Tsinghua University
 2000- Professor, Depart. of Civil Engineering, Tsinghua University.
 2006-2007 Berkeley Scholar, Department of Civil and Environmental Engineering, University of California, Berkeley, USA.

Selected Publications:

Dengfeng Wang, Yuanqing Wang, Yongjiu Shi and Pingzhou Cao, “Influence of Multiple Cutouts on the Buckling of Large-Scale Thin-Walled Cylindrical Shells of Desulphurizing Tower under Wind Loading”,

International Conference on Computer Distributed Control and Intelligent Environmental Monitoring (CDCIEM), 19-20 February, 2011

Shi, G., Liu, Z., Ban, H.Y., Zhang, Y., Shi, Y.J. and Wang, Y.Q. (2012), "Tests and finite element analysis on the local buckling of 420 MPa steel equal angle columns under axial compression", *Steel Compos. Struct., Int. J.*, 12(1), 31-51.

Y.Q. Wang, H.X. Yuan, Y.J. Shi and M. Cheng, "Lateral-torsional buckling resistance of aluminium I-beams", *Thin-Walled Structures*, Vol. 50, pp 24-36, January 2012

Huiyong Ban, Gang Shi, Yongjiu Shi and Yuanqing Wang, "Overall buckling behavior of 460 MPa high strength steel columns: Experimental investigation and design method", *Journal of Constructional Steel Research*, Vol. 74, pp 140-150, July 2012

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Huiyong Ban, Gang Shi, Yongjiu Shi and Mark A. Bradford, "Experimental investigation of the overall buckling behaviour of 960 MPa high strength steel columns", *Journal of Constructional Steel Research*, Vol. 88, pp 256-266, September 2013

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H.X. Yuan, Y.Q. Wang, Y.J. Shi, L. Gardner, Residual stress distributions in welded stainless steel sections, *Thin-Walled Struct.*, 79 (2014), pp. 38-51

H.X. Yuan, Y.Q. Wang, L. Gardner, Y.J. Shi, Local-overall interactive buckling of welded stainless steel box section compression members, *Eng. Struct.*, 67 (2014), pp. 62-76

Mehdi Shokouhian and Yongjiu Shi, "Classification of I-section flexural members based on member ductility", *Journal of Constructional Steel Research*, Vol. 95, pp 198-210, April 2014

H.X. Yuan, Y.Q. Wang, Y.J. Shi and L. Gardner, "Stub column tests on stainless steel built-up sections", *Thin-Walled Structures*, Vol. 83, pp 103-114, October 2014

Lu Yang, Yuanqing Wang, Bo Gao, Yongjiu Shi and Huanxin Yuan, "Two calculation methods for buckling reduction factors of stainless steel welded I-section beams", *Thin-Walled Structures*, Vol. 83, pp 128-136, October 2014

Wang, J.J., Shi, G. and Shi, Y.J. (2014), "Experimental research on behavior of 460 MPa high strength steel I-section columns under cyclic loading", *Earthq. Eng. Eng. Vib.*, 13(4), 611-622.

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Meng Wang, Weiguo Yang, Yongjiu Shi and Jian Xu, "Seismic behaviors of steel plate shear wall structures with construction details and materials", *Journal of Constructional Steel Research*, Vol. 107, pp 194-210, April 2015

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Y.Q. Wang, Z.X. Wang, F.X. Yin, L. Yang, Y.J. Shi and J. Yin, "Experimental study and finite element analysis on the local buckling behavior of aluminium alloy beams under concentrated loads", *Thin-Walled Structures*, Vol. 105, pp 44-56, August 2016

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H.X. Yuan, Y.Q. Wang, Y.J. Shi, L. Gardner, Residual stress distributions in welded stainless steel sections, *Thin-Walled Struct.*, 106 (2016), pp. 330-345

Y.L. Xu, Y.J. Shi, Y.R. Wu and H.Y. Ban, "Experimental and numerical study on lateral-torsional buckling behavior of high performance steel beams", *International Journal of Structural Stability and Dynamics*, Vol. 18, No. 7, 185010, July 2018