



**Professor Fei-Yu Liao**

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<http://english.fafu.edu.cn/jtxyen/82/54/c3864a98900/page.htm>

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**Research Interests:**

Steel-concrete composite structures, Structural earthquake engineering; Structural fire engineering

**Education:**

Graduated from Fuzhou University on November 2007 with doctoral degree of Structure Engineering.  
Graduated from South China University of Technology on July 2000 with bachelor degree of Structure Engineering.

**Selected Publications:**

Lin-Hai Han, Hui Lu, Guo-Huang Yao, Fei-Yu Liao. Further study on the flexural behaviour of concrete-filled steel tubes. *Journal of Constructional Steel Research*, 2006, 62(6): 554-565.

Lin-Hai Han, Zhong Tao, Fei-Yu Liao, Yi Xu. Tests on Cyclic Performance of Hybrid FRP-Concrete-Steel Double-Skin Tubular Columns. *Thin-Walled Structures*, 2010, 48(6): 430-439

Lin-Hai Han, Yong-Jin Li, Fei-Yu Liao. Concrete-filled double skin steel tubular (CFDST) columns subjected to long-term sustained loading. *Thin-Walled Structures* 2011, 49(12): 1534-1543

L.H. Han, S.H. He, F.Y. Liao, Performance and calculations of concrete filled steel tubes (CFST) under axial tension, *J. Constr. Steel Res.*, 67 (2011), pp. 1699–1709



(a) Observed



(b) Predicted

**Fig. 5. Comparison of observed and predicted failure modes.**

From: Z. Tao, B. Uy, F.Y. Liao, L.H. Han, Nonlinear analysis of concrete-filled square stainless steel stub columns under axial compression, *J. Constr. Steel Res.*, 67 (11) (2011), pp. 1719-1732

Z. Tao, B. Uy, F.Y. Liao, L.H. Han, Nonlinear analysis of concrete-filled square stainless steel stub columns under axial compression, *J. Constr. Steel Res.*, 67 (11) (2011), pp. 1719-1732

Liao, F.Y., Han, L.H., He, S.H.: Behavior of CFST short column and beam with initial concrete imperfection: experiments. *J. Constr. Steel Res.* 67(12), 1922–1935 (2011)

Feiyu Liao, Yongjin Li. Experimental behaviour of concrete filled steel tubes (CFST) with initial concrete imperfection subjected to eccentric compression. *Applied Mechanics and Materials Vols. 174-177* (2012) pp 35-38

Fei-Yu Liao, Lin-Hai Han, Zhong Tao. Performance of reinforced concrete (RC) shear walls with steel reinforced concrete (SRC) boundary columns. *Engineering Structures*, 2012, 44(11): 186-209

Fei-Yu Liao, Lin-Hai Han, and Zhong Tao. Behaviour of CFST stub columns with initial concrete imperfection: Analysis and calculations. *Thin-Walled Structures*, Vol. 70, pp 57-69, September 2013

Linhai Han, Feng Chen, Feiyu Liao, Zhong Tao, Brian Uy. 2011. Fire performance of concrete filled stainless steel tubular columns. *Engineering Structures*, 2013 56 (2013), pp. 165-181

L.H. Han, Y. Ye, F.Y. Liao, Effects of core concrete initial imperfection on performance of eccentrically loaded CFST columns, *ASCE J. Struct. Eng.*, 142 (2016), p. 04016132

Liao, F.-Y., Han, L.-H., Tao, Z. and Rasmussen, K.J.R. (2017), "Experimental behavior of concrete-filled stainless steel tubular columns under cyclic lateral loading", *J. Struct. Eng.*, 143(4), 04016219.

Fei-Yu Liao, Chao Hou, Wei-Jie Zhang and Jie Ren, "Experimental investigation on sea sand concrete-filled stainless steel tubular stub columns", *Journal of Constructional Steel Research*, Vol. 155, pp 46-51, April 2019