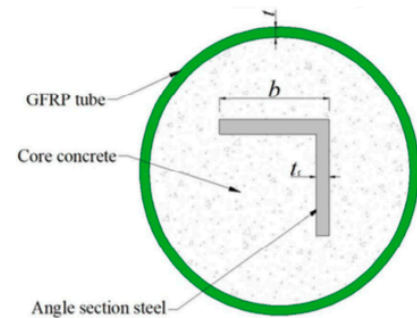




Professor Yu Chen



(a) Material object



(b) Diagrammatic sketch

Sketch of cross section of nano-silica concrete-filled angle steel reinforced GFRP tubular column

From: Kang He, Yu Chen and Wentao Xie, “Test on axial compression performance of nano-silica concrete-filled angle steel reinforced GFRP tubular column”, *Nanotechnol. Rev.* Vol. 8, pp 523-538, 2019

See:

<https://www.researchgate.net/scientific-contributions/2060865353-Yu-Chen>

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Selected Publications:

Yu Chen, Xixiang Chen and Chaoyang Wang, “Experimental and finite element analysis research on cold-formed steel lipped channel beams under web crippling”, *Thin-Walled Structures*, Vol. 87, pp 41-52, February 2015

Yu Chen and Ying Wu, “Behaviour of square hollow section brace-H-shaped steel chord T-joints under axial compression”, *Thin-Walled Structures*, Vol. 89, pp 192-204, April 2015

Yu Chen, Xixiang Chen and Chaoyang Wang, “Aluminum tubular sections subjected to web crippling”, *Thin-Walled Structures*, Vol. 90, pp 49-60, May 2015

Yu Chen and Chaoyang Wang, “Test on pultruded GFRP I-section under web crippling”, *Composites Part B: Engineering*, Vol. 77, pp 27-37, August 2015

Yu Chen and Chaoyang Wang, “Web crippling behavior of pultruded GFRP rectangular hollow sections”, *Composites Part B: Engineering*, Vol. 77, pp 112-121, August 2015

Yu Chen and Jiang Wang, “Numerical study and design equations of square and diamond bird-beak SHS T-joints under axial compression”, *Thin-Walled Structures*, Vol. 97, pp 215-224, December 2015

Yu Chen, Xixiang Chen and Chaoyang Wang, “Web crippling of galvanized steel tube strengthened by CFRP sheets”, *Composites Part B: Engineering*, Vol. 84, pp 200-210, January 2016

Yu Chen, Ran Feng and Lin Wei, “Design of CHS brace-to-H-shaped chord T-joints under axial compression”, *Thin-Walled Structures*, Vol. 98, Part B, pp 274-284, January 2016

Yu Chen, Xixiang Chen and Chaoyang Wang, “Tests and behavior of hot-rolled channel steel sections subjected to web crippling”, *Journal of Constructional Steel Research*, Vol. 117, pp 101-114, February 2016

Yu Chen, Ran Feng and Lele Xiong, “Experimental and numerical investigations on double-skin CHS tubular X-joints under axial compression”, *Thin-Walled Structures*, Vol. 106, pp 268-283, September 2016

Ran Feng, Yu Chen and Dongfen Chen, “Experimental and numerical investigations on collar plate and doubler plate reinforced SHS T-joints under axial compression”, *Thin-Walled Structures*, Vol. 110, pp 75-87, January 2017

Ming-Hui Fu, Yu Chen and Ling-Ling Hu, "A novel auxetic honeycomb with enhanced in-plane stiffness and buckling strength", *Composite Structures*, Vol. 160, pp 574-585, January 2017

Jun Wan, Yu Chen, Kai Wang and Shaohua Han, "Residual strength of CHS short steel columns after lateral impact", *Thin-Walled Structures*, Vol. 118, pp 23-36, September 2017

Shaohua Han, Yu Chen and Wentao Xie, "Behaviour of square hollow steel tubular (SHST) stub columns after elevated temperature", *Journal of Constructional Steel Research*, Vol. 136, pp 177-192, September 2017

Yu Chen, Ran Feng, Yongbo Shao, Xiaotian Zhang, "Bond-slip behaviour of concrete-filled stainless steel circular hollow section tubes", *J. Constr. Steel Res.*, 130 (2017), pp. 248-263

Yu Chen, Jun Wan, Kai Wang and Shaohua Han, "Residual axial bearing capacity of square steel tubes after lateral impact", *Journal of Constructional Steel Research*, Vol. 137, pp 325-341, October 2017

Wentao Xie, Yu Chen, Shaohua Han, Wenbo Zhou and Kang He, "Research on I steel reinforced concrete-filled GFRP tubular short columns", *Thin-Walled Structures*, Vol. 120, pp 282-296, November 2017

Yu Chen, Ran Feng and Liqun Fu, "Investigation of grouted stainless steel SHS tubular X- and T-joints subjected to axial compression", *Engineering Structures*, Vol. 150, pp 318-333, November 2017

Yu Chen, Bin-Bin Zheng, Ming-Hui Fu, Lin-Hua Lan and Wen-Zhi Zhang, "Doubly unusual 3D lattice honeycomb displaying simultaneous negative and zero Poisson's ratio properties", *Smart Materials and Structures*, Vol. 27, No. 4, 045003, April 2018

Yu Chen, Kai Wang, Kang He, Jiangang Wei and Jun Wan, "Compressive behavior of CFRP-confined post heated square CFST stub columns", *Thin-Walled Structures*, Vol. 127, pp 434-445, June 2018

Ran Feng, Wu Zhu, Haiying Wan, Anying Chen and Yu Chen, "Tests of perforated aluminium alloy SHSs and RHSs under axial compression", *Thin-Walled Structures*, Vol. 130, pp 194-212, September 2018

Yu Chen and Ran Feng, "Behaviour of concrete-filled double-skin circular hollow section cross joints under axial compression", *International Journal of Steel Structures*, Vol. 18, No. 3, pp 750-772, September 2018

Kang He and Yu Chen, "Experimental Investigation on Stability of Circular Steel Tubular Stub Columns at Elevated Temperatures Under Axial Compression", *International Journal of Structural Stability and Dynamics*, Vol. 19, No. 6, 1950063, June 2019

Kang He and Yu Chen, "Experimental evaluation of built-in channel steel concrete-filled GFRP tubular stub columns under axial compression", *Composite Structures*, Vol. 219, pp 51-68, 1 July 2019

Tao Pi, Yu Chen, Kang He, Shaohua Han and Jun Wan, "Study on circular CFST stub columns with double inner square steel tubes", *Thin-Walled Structures*, Vol. 140, pp 195-208, July 2019,

Kang He, Yu Chen, Shaohua Han, "Experimental investigation of square stainless steel tubular stub columns after elevated temperatures", *Journal of Constructional Steel Research*, Vol. 159, pp 397-414 August 2019

Kang He, Yu Chen and Wentao Xie, "Test on axial compression performance of nano-silica concrete-filled angle steel reinforced GFRP tubular column", *Nanotechnol. Rev.* Vol. 8, pp 523-538, 2019

Zhiguang Song, Yiyu Chen, Zhenyu Li, Jincheng Sha, Fengming Li, "Axially functionally graded beams and panels in supersonic airflow and their excellent capability for passive flutter suppression", *Aerospace Science and Technology*, Vol. 92, pp 668-675, September 2019

Xia Yang, Chao Tang, Yu Chen and Tian-Yang Qiao, "Compressive behavior of steel-reinforced concrete-filled square steel tubular stub columns after exposure to elevated temperature", *Engineering Structures*, Vol. 204, Article 110048, 1 February 2020

Yao Zhu, Yu Chen, Kang He, Ran Feng, Xiaoyong Zhang, Qingxia Zhu (1) and Chao Tang, "Flexural behavior of concrete-filled SHS and RHS aluminum alloy tubes strengthened with CFRP", *Composite Structures*, Vol. 238, Article 111975, 15 April 2020

Zhan Guo, Mengya Ye, Yu Chen and Xixiang Chen, "Experimental study on compressive behavior of concrete-filled GFRP tubular stub columns after being subjected to acid corrosion", *Composite Structures*, Vol. 250 Article 112630, 15 October 2020

Zhan Guo, Jinpeng Wang and Yu Chen, "Research on mechanical behavior of three-layer toughened sandwich glass with trilateral simple support", *Composite Structures*, Vol. 252 Article 112738, 15 November 2020

Kang He, Xiaoyong Zhang and Yu Chen, "Research on vertical bearing capacity of circular concrete filled winding GFRP tubular columns after lateral impact", *Composite Structures*, Vol. 252 Article 112753, 15 November 2020

Zhan Guo, Lujing Xia and Yu Chen, "Investigation on flexural behavior of double-layer toughened sandwich glass with trilateral simple support", *Composite Structures*, Vol. 252 Article 112783, 15 November 2020

Kang He and Yu Chen, "Experimental investigation of fire-exposed steel tubular stub columns wrapped with CFRP sheets", *Composite Structures*, Vol. 253 Article 112807, 1 December 2020,