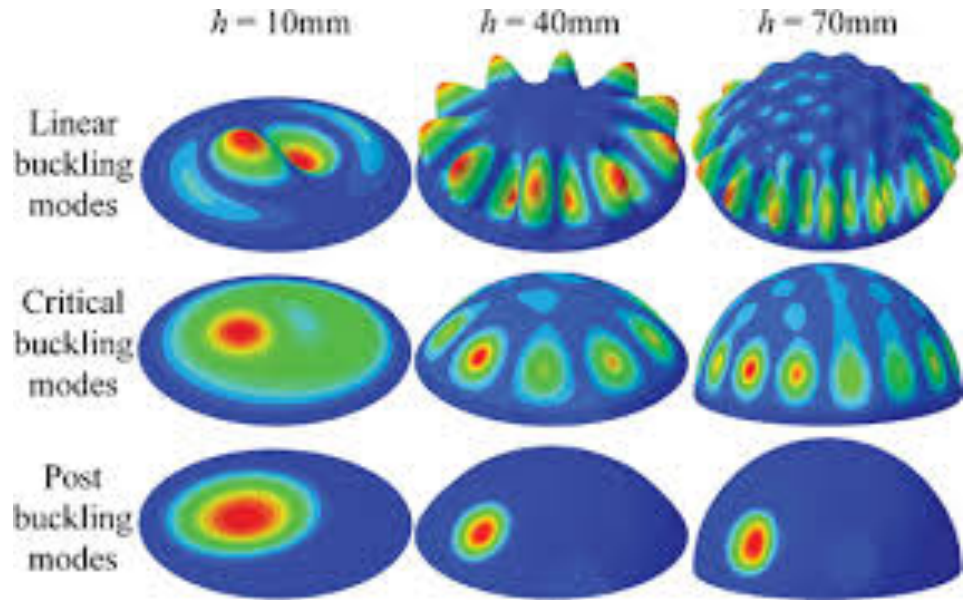




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From: Jian Zhang, Yueyang Wang, Fang Wang and Wenxian Tang, "Buckling of stainless steel spherical caps subjected to uniform external pressure", *Ships and Offshore Structures*, Vol. 13, No. 7, 2018

See:

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<https://scholar.google.com/citations?user=TO--HrUAAA&hl=en>

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Selected Publications:

Tadeh Zirakian and Jian Zhang, "Elastic distortional buckling of singly symmetric I-shaped flexural members with slender webs", *International Journal of Structural Stability and Dynamics*, Vol. 12, No. 2, 359-376, March 2012

Tadeh Zirakian and Jian Zhang, "Buckling and yielding behavior of unstiffened slender, moderate, and stocky low yield point steel plates", *Thin-Walled Structures*, Vol. 88, pp 105-118, March 2015

Jian Zhang, Minglu Wang, Weibo Wang and Fei Yan, "Biological characteristics of eggshell and its bionic application", *Advances in Natural Science*, Vol. 8, No. 1, 2015

Jian Zhang, Meng Zhang, Wenxian Tang, Weibo Wang and Minglu Wang, "Buckling of spherical shells subjected to external pressure: A comparison of experimental and theoretical data", *Thin-Walled Structures*, Vol. 111, pp 58-64, February 2017

Jian Zhang, Minglu Wang, Weibo Wang, Wenxian Tang and Yongmei Zhu, "Investigation on egg-shaped pressure hulls", *Marine Structures*, Vol. 52, pp 50-66, March 2017

Jian Zhang, Minglu Wang, Weibo Wang and Wenxian Tang, "Buckling of egg-shaped shells subjected to external pressure", *Thin-Walled Structures*, Vol. 113, pp 122-128, April 2017

Jian Zhang, Benyi Zhu, Fang Wang, Wenxian Tang, Weibo Wang and Meng Zhang, "Buckling of prolate egg-shaped domes under hydrostatic external pressure", *Thin-Walled Structures*, Vol. 119, pp 296-303, October 2017

Meng Zhang, Wenxian Tang, Fang Wang, Jian Zhang, Weicheng Cui and Yun Chen, "Buckling of bi-segment spherical shells under hydrostatic external pressure", *Thin-Walled Structures*, Vol. 120, pp 1-8, November 2017

Bin Wu, Junkai Lu, Yang Mei and Jian Zhang, "Buckling mechanism and global stability design method of buckling-restrained braces", *Journal of Constructional Steel Research*, Vol. 138, pp 473-487, November 2017

Yongmei Zhu, Qingli Ma, Jian Zhang, Wenxian Tang and Yongjian Dai, "Opening reinforcement design and buckling of spherical shell subjected to external pressure", *International Journal of Pressure Vessels and Piping*, Vol. 158, pp 29-36, December 2017

Jian Zhang, Weimin Wang, Fang Wang, Wenxian Tang, Weicheng Cui and Weibo Wang, "Elastic buckling of externally pressurized Cassini oval shells with various shape indices", *Thin-Walled Structures*, Vol. 122, pp 83-89, January 2018

Jian Zhang, Meng Zhang, Weicheng Cui, Wenxian Tang, Fang Wang and Binbin Pan, "Elastic-plastic buckling of deep sea spherical pressure hulls", *Marine Structures*, Vol. 57, pp 38-51, January 2018

Jian Zhang, Minglu Wang, Weicheng Cui, Fang Wang, Zhengdao Hua, Wenxian Tang, "Effect of thickness on the buckling strength of egg-shaped pressure hulls", *Ships and Offshore Structures*, 13 (4) (2018), pp. 375-384

Liming Chen, Jian Zhang, Bing Du, Hao Zhou, . . . Daining Fang, "Dynamic crushing behavior and energy absorption of graded lattice cylindrical structure under axial impact load", *Thin-Walled Structures*, Vol. 127, pp 333-343, June 2018

Minglu Wang, Jian Zhang, Weimin Wang and Wenxian Tang, "Linear and nonlinear elastic buckling of stereolithography resin egg-shaped shells subjected to external pressure", *Thin-Walled Structures*, Vol. 127, pp 516-522, June 2018

Jian Zhang, Yueyang Wang, Fang Wang and Wenxian Tang, "Buckling of stainless steel spherical caps subjected to uniform external pressure", *Ships and Offshore Structures*, Vol. 13, No. 7, 2018

Qingli Ma, Yongmei Zhu, Wanwan Liang and Jian Zhang, "Buckling and strength of an externally pressurized spherical shell with reinforced opening", *International Journal of Pressure Vessels and Piping*, Vol. 165, pp 11-19, August 2018

Jian Zhang, Zhengdao Hua, Wenxian Tang, Fang Wang and Shuyan Wang, "Buckling of externally pressurized egg-shaped shells with variable and constant wall thicknesses", *Thin-Walled Structures*, Vol. 132, pp 111-119, November 2018

Jian Zhang, Yueyang Wang, Wenxian Tang, Yongmei Zhu and Xilu Zhao, "Buckling of externally pressurized spherical caps with thickness reduction", *Thin-Walled Structures*, Vol. 136, pp 129-137, March 2019

Jian Zhang, Yuewen Zhang, Fang Wang, Yongmei Zhu, Weicheng Cui, Yun Chen and Zhe Jiang, "Experimental and numerical studies on the buckling of the hemispherical shells made of maraging steel subjected to extremely high external pressure", *International Journal of Pressure Vessels and Piping*, Vol. 172, pp 56-64, May 2019

Yueyang Wang, Wenxian Tang, Jian Zhang, Si Zhang and Yun Chen, "Buckling of imperfect spherical caps with fixed boundary under uniform external pressure", *Marine Structures*, Vol. 65, pp 1-15, May 2019

Danfeng Zhou, Yuanlu Xiong, Huan Yuan, Guoqiang Luo, Jian Zhang, Qiang Shen and Lianmeng Zhang, "Synthesis and compressive behaviors of PMMA microporous foam with multi-layer cell structure", *Composites Part B: Engineering*, Vol. 165, pp 272-278, 15 May 2019

Wen-xian Tang, Wei-min Wang, Jian Zhang and Shu-yan Wang, "Buckling of Cassini oval pressure hulls subjected to external pressure", *China Ocean Engineering*, Vol. 33, No. 4, pp 503-508, August 2019

Jian Zhang, Jiawei Tan, Wenxian Tang, Xilu Zhao, Yongmei Zhu, "Experimental and numerical collapse properties of externally pressurized egg-shaped shells under local geometrical imperfections", *International Journal of Pressure Vessels and Piping*, Vol. 175, Article 103893, August 2019

Jian Zhang, Qiang Xie, "Failure analysis of transmission tower subjected to strong wind load", *Journal of Constructional Steel Research*, Vol. 160, pp 271-279, September 2019