Professor Fang Wang

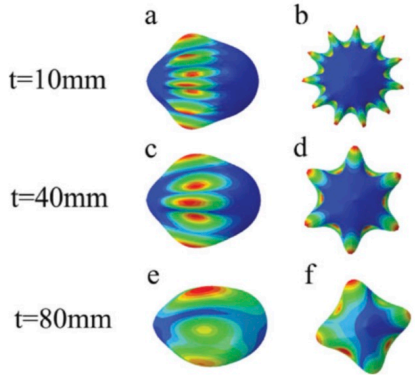

Figure 2. Linear buckling modes for the 10, 40 and 80 mm egg-shaped pressure hulls obtained from linear elastic bifurcation analysis (LBA); a, c, e = front view; b, d,

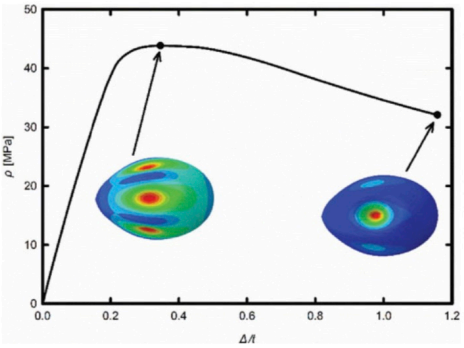

Figure 4. Equivalent path for the 40 mm egg-shaped pressure hull obtained from geometrically and materially nonlinear elastic analysis with imperfections included (GMNIA), along with its critical and post-buckling modes. (This figure is available in colour online.)

From: 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

See:
https://www.researchgate.net/profile/Fang_Wang147

Hadal Science and Technology Research Center
Shanghai Ocean University, Shanghai, China

Selected Publications:

Fang Wang, Kai Li and Kai Liu, "Controllable wrinkling of thin films on pre-stretched elastomers induced by gravity", International Journal of Applied Mechanics, Vol. 6, No. 3, 1450029, June 2014
Fang Wang, Jeom Kee Paik Bong Ju Kim, Weicheng Cui, Tasawar Hayat and B. Ahmad, "Ultimate shear strength of intact and cracked stiffened panels", Thin-Walled Structures, Vol. 88, pp 48-57, March 2015
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
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, 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
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, 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
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, 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