



Professor Bo Wang

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Department of Engineering Mechanics
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Biography:

Bo Wang, of Chinese citizenship, is a recently appointed professor at the Dalian University of Technology (DUT). He is deputy director of the Department of Engineering Mechanics and State Key Lab of Structural Analysis for Industrial Equipment. Professor Wang has authored or co-authored 40 published peer reviewed journal articles and has contributed to more than 30 invited or contributed conference talks. He is the editorial board member of International Journal for Simulation and Multidisciplinary Design Optimization. In 2006, He was awarded with Young Scientist of the Forth China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems.

Research Interests:

Prof.Wang's expertise now includes structural and multidisciplinary optimization, aerospace advanced materials and lightweight structure, and large structural experiments.

Selected Publications:

1. Bo Wang, Gengdong Cheng. Design of cellular structures for optimum efficiency of heat dissipation, Structural and Multidisciplinary Optimization, 2005,30,447-458
2. Wang Bo, Cheng Gengdong. Design of multi-tubular heat exchanger for optimum efficiency of heat dissipation. Engineering Optimization, 2008, Vol.40,767-788
3. Zhang Xiong, Cheng Gengdong, Wang Bo, Zhang Hui. Optimum design for energy absorption of bitubal hexagonal columns with honeycomb core. International Journal of Crashworthiness, 2008, Vol.13, 99-107
4. Bo Wang, Peng Hao, Kai-fan Du and Gang Li. Knockdown factor Based on imperfection sensitivity analysis for stiffened shells, International Journal of Aerospace and Lightweight Structures, Vol. 1, No. 2 (2011) 315-333

5. Peng Hao, Bo Wang, Gang Li. Surrogate-Based Optimum Design for Stiffened Shells with Adaptive Sampling, *AIAA Journal*, 2012 , Vol.50,No.11, 2389-2407
6. Xiaofeng Liu, Gengdong Cheng, Bo Wang, Shuzhi Lin. Optimum Design of Pile Foundation by Automatic Grouping Genetic Algorithms, *ISRN Civil Engineering*, Volume 2012 (2012), doi:10.5402/2012/678329
7. Baofeng Pan, Rui Li , Yewang Su, Bo Wang, Yang Zhong. Analytical bending solutions of clamped rectangular thin plates resting on elastic foundations by the symplectic superposition method, *Applied Mathematics Letters*,26 (2013) 355-361
8. Bo Wang, Peng Hao, Gang Li, Yaochu Fang, et al. Determination of realistic worst imperfection for cylindrical shells using surrogate model, *Structural and Multidisciplinary Optimization*,48(2013),777-794
9. Hao P, Wang B, Li G, Tian Kuo, Du KF, Wang XJ. Surrogate-Based Optimization of Stiffened Shells Including Load-Carrying Capacity and Imperfection Sensitivity. *Thin-Walled Structures*, 2013(72),164-174
10. Peng Hao, Bo Wang, Gang Li, Zeng Meng, Kuo Tian, Xiaojun Wang, Xiaohan Tang , Hybrid Optimization of Hierarchical Stiffened Shells based on Smearred Stiffener Method and Finite Element Method, *Thin-Walled Structures*, 82(2014)46-54
11. Bo Wang, Peng Hao, Gang Li, Kaifan Du, Xiaojun Wang, Xiaohan Tang. Optimum Design of Hierarchical Stiffened Shells for Low Imperfection Sensitivity, *Acta Mechanica Sinica*,2014, 30(3): 391-402
12. Bo Wang, Peng Hao, Gang Li, Kaifan Du, Xiaojun Wang, Xi Zhang. Two-stage size-layout optimization of axially compressed stiffened panels, *Structural and Multidisciplinary Optimization*, (2014) 50:313-327
13. Ren Mingfa, Li Tong, Huang Qizhong, Wang, Bo. Numerical investigation into the buckling behavior of advanced grid stiffened composite cylindrical shell. *Journal of Reinforced Plastics and Composites*, 2014, Vol. 33(16) 1508-1519
14. Rui Li, Bo Wang, Peng Li, Hamiltonian system-based benchmark bending solutions of rectangular thin plates with a corner point-supported. *International Journal of Mechanical Sciences*, 85(2014):212-218
15. Peng Hao, Bo Wang, Gang Li, Zeng Meng, Kuo Tian, Dujuan Zeng, Xiaohan Tang, Worst Multiple Perturbation Load Approach of Stiffened Shells with and without Cutouts for Improved Knockdown Factors, *Thin-Walled Structures*,82(2014):321-330
16. Wang Bo, Hao Peng, LI Gang, Wang XiaoJun, Tang XiaoHan, Generatrix shape optimization of stiffened shells for low imperfection sensitivity, *SCIENCE CHINA Technological Sciences*, 2014, 57(10): 2012-2019
17. Zhang JX, Wang B, Niu F, Cheng GD. Design Optimization of Connection Section for Concentrated Force Diffusion. *Mechanics Based Design of Structures and Machines*, 43(2015): 209-231
18. Rui Li, Bo Wang, Gang Li, Benchmark bending solutions of rectangular thin plates point-supported at two adjacent corners, *Applied Mathematics Letters*. 40(2015):53-58