

Professor Qingshan Wang

See:

https://www.researchgate.net/scientific-contributions/2008466921_Qingshan_Wang

School of Mechanical and Electrical Engineering Central South University, Changsha, China

Selected Publications:

Xianjie Shi, Dongyan Shi, Wen L. Li and Qingshan Wang, "A unified method for free vibration analysis of circular, annular and sector plates with arbitrary boundary conditions", Journal of Vibration and Control, May 2014 (published online)

Dongyan Shi, Qingshan Wang, Xianjie Shi and Fuzhen Pang, "Free vibration analysis of moderately thick rectangular plates with variable thickness and arbitrary boundary conditions", Shock and Vibration, Vol. 2014, Article ID 572395, 25 pages, Hindawi Publishing Corp.

Dongyan Shi, Yunke Zhao, Qingshan Wang, Xiaoyan Teng and Fuzhen Pang, "A unified spectro-geometric-Ritz method for vibration analysis of open and closed shells with arbitrary boundary conditions", Shock and Vibration, Vol. 2016, Article ID 4097123, 30 pages, Hindawi Publishing Corp.

Qingshan Wang, Dongyan Shi, Fuzhen Pang and Qian Liang, "Vibrations of composite laminated circular panels and shells of revolution with general elastic boundary conditions via Fourier-Ritz method", Curved and Layered Structures, Vol. 3, No. 1, April 2016

Hong Zhang, Dongyan Shi, Qingshan Wang and Bin Qin, "Free vibration of functionally graded parabolic and circular panels with general boundary conditions", Curved and Layered Structures, Vol. 4, No. 1, pp 52-84, January 2017

Hong Zhang, Dongyan Shi and Qingshan Wang, "An improved Fourier series solution for free vibration analysis of the moderately thick laminated composite rectangular plate with non-uniform boundary conditions", International Journal of Mechanical Sciences, Vol. 121, pp 1-20, February 2017

Qingshan Wang, Dongyan Shi, Qian Liang and Fuzhen Pang, "Free vibration of four-parameter functionally graded moderately thick doubly-curved panels and shells of revolution with general boundary conditions", Applied Mathematical Modelling, Vol. 42, pp 705-734, February 2017

Dongyan Shi, Shuai Zha, Hong Zhang and Qingshan Wang, "Free vibration analysis of the unified functionally graded shallow shell with general boundary conditions", Shock and Vibration, Vol. 2017, Article ID 7025190, 19 pages, Hindawi Publishing Corp.

Dongyan Shi, Hong Zhang, Qingshan Wang and Shuai Zha, "Free and forced vibration of the moderately thick laminated composite rectangular plat on various elastic Winkler and Pasternak foundations", Shock and Vibration, Vol. 2017, Article ID 7820130, 23 pages, Hindawi publishing Corp.

Qingshan Wang, Dongyan Shi, Qian Liang and Fuzhen Pang, "Free vibrations of composite laminated doublycurved shells and panels of revolution with general elastic restraints", Applied Mathematical Modelling, Vol. 46, pp 227-262, June 2017

Qingshan Wang, Bin Qin, Dongyan Shi and Qian Liang, "A semi-analytical method for vibration analysis of functionally graded carbon nanotube reinforced composite doubly-curved panels and shells of revolution", Composite Structures, Vol. 174, pp 87-109, August 2017

Qingshan Wang, Xiaohui Cui, Bin Qin and Qian Liang, "Vibration analysis of the functionally graded carbon nanotube reinforced composite shallow shells with arbitrary boundary conditions", Composite Structures, Vol. 182, pp 364-379, December 2017

Qingshan Wang, Xiaohui Cui, Bin Qin, Qian Liang and Jinyuan Tang, "A semi-analytical method for vibration analysis of functionally graded (FG) sandwich doubly-curved panels and shells of revolution", International Journal of Mechanical Sciences, Vol. 134, pp 479-499, December 2017

Qingshan Wang, Dongyan Shi, Qian Liang and Fuzhen Pang, "A unified solution for vibration analysis of moderately thick, functionally graded rectangular plates with general boundary restraints and internal line supports", Mechanics of Advanced Materials and Structures, Vol. 24, No. 11, pp 943-961, 2017

Qingshan Wang, Dong Shao and Bin Qin, "A simple first-order shear deformation shell theory for vibration analysis of composite laminated open cylindrical shells with general boundary conditions", Composite Structures, Vol. 184, pp 211-232, 15 January 2018

Jianghua Guo, Dongyan Shi, Qingshan Wang, Jinyuan Tang and Cijun Shuai, "Dynamic analysis of laminated doubly-curved shells with general boundary conditions by means of a domain decomposition method", International Journal of Mechanical Sciences, Vols. 138-139, pp 159-186, April 2018

Kwangnam Choe, Qingshan Wang, Jinyuan Tang and Cijun Shui, "Vibration analysis for coupled composite laminated axis-symmetric doubly-curved revolution shell structures by unified Jacoby-Ritz method", Composite Structures, Vol. 194 pp 136-157, June 2018

Dongyan Shi, Tao Liu, Qingshan Wang and Qi Lan, "Vibration analysis of arbitrary straight-sided quadrilateral plates using a simple first-order shear deformation theory", Results in Physics, Vol. 11, pp 201-211, 2018 Kwangnam Choe, Jinyuan Tang, Cijujn Shui, Ailun Wang and Qingshan Wang, "Free vibration analysis of coupled functionally graded (FG) doubly-curved revolution shell structures with general boundary conditions", Composite Structures, Vol. 194 pp 413-432, June 2018

Xianlei Guan, Jinyuan Tang, Dongyan Shi, Cijun Shuai and Qingshan Wang, "A semi-analytical method for transverse vibration of a sector-like thin plate with simply supported radial edges", Applied Mathematical Modelling, Vol. 60, pp 48-63, August 2018

Jing Zhao, Kwangnam Choe, Fei Xie, Ailun Wang, Cijun Shuai and Qingshan Wang, "Three-dimensional exact solution for vibration analysis of thick functionally graded porous (FGP) rectangular plates with arbitrary boundary conditions", Composites Part B: Engineering, Vol. 155, pp 369-381, 15 December 2018 Rui Zhong, Qingshan Wang, Jinyuan Tang, Cijun Shuai and Qian Liang, "Vibration characteristics of functionally graded carbon nanotube reinforced composite rectangular plates on Pasternak foundation with arbitrary boundary conditions and internal line supports", Curved and Layered Structures, Vol. 5, No. 1, pp 10-34, 2018

Fei Xie, Jinyuan Tang, Ailun Wang, Cijun Shuai and Qingshan Wang, "Free vibration of functionally graded carbon nanotube reinforced composite cylindrical panels with general elastic supports", Curved and Layered Structures, Vol. 5, No. 1, 2018

Jing Zhao, Fei Xie, Ailun Wang, Cijun Shuai, and Qingshan Wang, "A unified solution for the vibration analysis of functionally graded porous (FGP) shallow shells with general boundary conditions", Composites Part B: Engineering, Vol. 156, pp 406-424, 1 January 2019

Hong Zhang, Dongyan Shi, Shuai Zha and Qingshan Wang, "A modified Fourier solution for sound-vibration analysis for composite laminated thin sector plate-cavity coupled system", Composite Structures, Vol. 207, pp 560-575, 1 January 2019

Jing Zhao, Fei Xie, Ailun Wang, Cijun Shuai, Jinyuan Tang and Qingshan Wang, "Vibration behavior of the functionally graded porous (FGP) doubly-curved panels and shells of revolution by using a semi-analytical method", Composites Part B: Engineering, Vol. 157, pp 219-238, 15 January 2019

Jing Zhao, Kwangnam Choe, Cijun Shuai, Ailun Wang and Qingshan Wang, "Free vibration analysis of laminated composite elliptic cylinders with general boundary conditions", Composites Part B: Engineering, Vol. 158, pp 55-66, 1 February 2019

Xianlei Guan, Kyongjin Sok, Ailun Wang, Cijun Shuai, Jinyuan Tang and Qingshan Wang, "A general vibration analysis of functionally graded porous structure elements of revolution with general elastic restraints", Composite Structures, Vol. 209, pp 277-299, 1 February 2019

Jing Zhao, Fei Xie, Ailun Wang, Cijun Shuai, and Qingshan Wang, "Dynamics analysis of functionally graded porous (FGP) circular, annular and sector plates with general elastic restraints", Composites Part B: Engineering, Vol. 159, pp 20-43, 15 February 2019

Jing Zhao, Yongkang Zhang, Kwangnam Choe, Xiaofei Qu, Ailun Wang and Qingshan Wang, "Threedimensional exact solution for the free vibration of thick functionally graded annular sector plates with arbitrary boundary conditions", Composites Part B: Engineering, Vol. 159, pp 418-436, 15 February 2019 Jing Zhao, Kwangnam Choe, Yongkang Zhang, Ailun Wang, Chaohui Lin and Qingshan Wang, "A closed form

solution for free vibration of orthotropic circular cylindrical shells with general boundary conditions", Composites Part B: Engineering, Vol. 159, pp 447-460, 15 February 2019