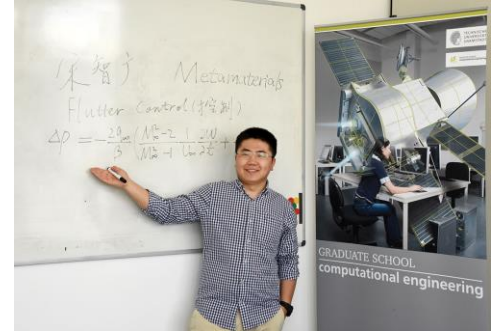


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EDUCATION

Institution	Degree	Specialty	Year
Harbin University of Science and Technology	B.Sc	Engineering Mechanics	2005-2009
Harbin Institute of Technology	M.Sc	Dynamics and Control	2009-2011
Harbin Institute of Technology	Ph.D	Dynamics and Control	2011-2014

WORKING EXPERIENCES

Apr. 2018 – present, **Professor**, Harbin Engineering University, Harbin, P.R. China

Aug. 2016 – Mar. 2018, **Alexander von Humboldt Research Fellow**, TU Darmstadt, Germany. (Host: Peter Hagedorn)

Dec. 2014 – Jun. 2016, **Research Associate**, City University of Hong Kong, Hong Kong. (Host: K.M. Liew)

MEMBERSHIP

May 2018 – present, **Editorial board**, International Journal of Aerospace Engineering.

RESEARCH INTERESTS

1. Structural vibration and control
2. Fluid-thermo-elastic interaction.
3. Nonlinear dynamics.
4. Finite element method.

KEY PUBLICATIONS

- [1] Z.G. Song, X. He, K.M. Liew. Dynamic responses of aerothermoelastic functionally graded CNT reinforced composite panels in supersonic airflow subjected to low-velocity impact. *Composites Part B: Engineering*, 2018, 149: 99-109.
- [2] L.W. Zhang, Z.G. Song*, K.M. Liew*. Modeling aerothermoelastic properties and active flutter control of nanocomposite cylindrical shells in supersonic airflow under thermal environments. *Computer Methods in Applied Mechanics and Engineering*, 2017, 325: 416-433.
- [3] L.W. Zhang, Z.G. Song*, P.Z. Qiao, K.M. Liew*. Modeling of dynamic responses of CNT-reinforced composite cylindrical shells under impact loads. *Computer Methods in Applied Mechanics and Engineering*, 2017, 313: 889-903.
- [4] Z.G. Song, L.W. Zhang, K.M. Liew. Active vibration control of CNT-reinforced composite cylindrical shells via piezoelectric patches. *Composite Structures*, 2016, 158: 92-100.
- [5] Z.G. Song, L.W. Zhang, K.M. Liew. Vibration analysis of CNT-reinforced functionally graded composite cylindrical

shells in thermal environments. *International Journal of Mechanical Sciences*, 2016, 115: 339-347.

- [6] Z.G. Song, L.W. Zhang, K.M. Liew. Dynamic responses of CNT reinforced composite plates subjected to impact loading. *Composites Part B: Engineering*, 2016, 99: 154-161.
- [7] Z.G. Song, L.W. Zhang, K.M. Liew. Aeroelastic analysis of CNT reinforced functionally graded composite panels in supersonic airflow using a higher-order shear deformation theory. *Composite Structures*, 2016, 141: 79-90.
- [8] L.W. Zhang, Z.G. Song*, K.M. Liew*. Computation of aerothermoelastic properties and active flutter control of CNT reinforced functionally graded composite panels in supersonic airflow. *Computer Methods in Applied Mechanics and Engineering*, 2016, 300: 427-441.
- [9] L.W. Zhang, Z.G. Song, K.M. Liew*. Optimal shape control of CNT reinforced functionally graded composite plates using piezoelectric patches. *Composites Part B: Engineering*, 2016, 85: 140-149.
- [10] Z.G. Song, L.W. Zhang, K.M. Liew. Active vibration control of CNT reinforced functionally graded plates based on a higher-order shear deformation theory. *International Journal of Mechanical Sciences*, 2016, 105: 90-101.
- [11] Z.G. Song, L.W. Zhang, K.M. Liew. State-space Levy method for vibration analysis of FG-CNT composite plates subjected to in-plane loads based on higher-order shear deformation theory. *Composite Structures*, 2015, 134: 989-1003.
- [12] L.W. Zhang, Z.G. Song, K.M. Liew*. Nonlinear bending analysis of FG-CNT reinforced composite thick plates resting on Pasternak foundations using the element-free IMLS-Ritz method. *Composite Structures*, 2015, 128: 165-175.
- [13] Y.Y. Chai, F.M. Li, Z.G. Song. Nonlinear vibrations, bifurcations and chaos of lattice sandwich composite panels on Winkler-Pasternak elastic foundations with thermal effects in supersonic airflow. *Meccanica*, 2019, 54(7): 919-944.
- [14] Z.G. Song, T.Z. Yang, F.M. Li, E. Carrera, P. Hagedorn. A method of panel flutter suppression and elimination for aeroelastic structures in supersonic airflow. *Journal of Vibration and Acoustics*, 2018, 140(6): 064501.
- [15] Y.Y. Chai, Z.G. Song*, F.M. Li. Investigations on the aerothermoelastic properties of composite laminated cylindrical shells with elastic boundaries in supersonic airflow based on the Rayleigh-Ritz method. *Aerospace Science and Technology*, 2018, 82-83: 534-544.
- [16] Y.Y. Chai, F.M. Li, Z.G. Song, Ch. Zhang. Aerothermoelastic flutter analysis and active vibration suppression of nonlinear composite laminated panels with time-dependent boundary conditions in supersonic airflow. *Journal of Intelligent Material Systems and Structures*, 2018, 29(4): 653-668.
- [17] Z.G. Song, F.M. Li, E. Carrera, P. Hagedorn. A new method of smart and optimal flutter control for composite laminated panels in supersonic airflow under thermal effects. *Journal of Sound and Vibration*, 2018, 414: 218-232.
- [18] Y.Y. Chai, Z.G. Song*, F.M. Li. Investigations on the influences of elastic foundations on the aerothermoelastic flutter and thermal buckling properties of lattice sandwich panels in supersonic airflow. *Acta Astronautica*, 2017, 140: 176-189.
- [19] Y.Y. Chai, Z.G. Song*, F.M. Li. Active aerothermoelastic flutter suppression of composite laminated panels with time-dependent boundaries. *Composite Structures*, 2017, 179: 61-76.
- [20] Y.Y. Chai, F.M. Li, Z.G. Song. Nonlinear vibration behaviors of composite laminated plates with time-dependent base excitation and boundary conditions. *International Journal of Nonlinear Sciences and Numerical Simulation*, 2017, 18(2): 145-161.

- [21] Z.G. Song, F.M. Li. Flutter and buckling characteristics and active control of sandwich panels with triangular lattice core in supersonic airflow. *Composites Part B: Engineering*, 2017, 108: 334-344.
- [22] Z.G. Song, F.M. Li. Aerothermoelastic analysis of lattice sandwich composite panels in supersonic airflow. *Meccanica*, 2016, 51(4): 877-891.
- [23] F.M. Li, Z.G. Song, C.C. Sun. Aeroelastic properties of sandwich beam with pyramidal lattice core considering geometric nonlinearity in the supersonic airflow. *Acta Mechanica Solida Sinica*, 2015, 28(6): 639-646.
- [24] Z.G. Song, F.M. Li, W. Zhang. Active flutter and aerothermal postbuckling control for nonlinear composite laminated panels in supersonic airflow. *Journal of Intelligent Material Systems and Structures*, 2015, 26(7): 840-857.
- [25] F.M. Li, Z.G. Song. Vibration analysis and active control of nearly periodic two-span beams with piezoelectric actuator/sensor pairs. *Applied Mathematics and Mechanics*, 2015, 36(3): 279-292.
- [26] F.M. Li, Z.G. Song. Aeroelastic flutter analysis for 2D Kirchhoff and Mindlin panels with different boundary conditions in supersonic airflow. *Acta Mechanica*, 2014, 225(12): 3339-3351.
- [27] Z.G. Song, F.M. Li. Optimal locations of piezoelectric actuators and sensors for supersonic flutter control of composite laminated panels. *Journal of Vibration and Control*, 2014, 20(14): 2118-2132.
- [28] Z.G. Song, F.M. Li. Vibration and aeroelastic properties of ordered and disordered two-span panels in supersonic airflow. *International Journal of Mechanical Sciences*, 2014, 81: 65-72.
- [29] Z.G. Song, F.M. Li. Aeroelastic analysis and active flutter control of nonlinear lattice sandwich beams, *Nonlinear Dynamics*, 2014, 76(1): 57-68.
- [30] Z.G. Song, F.M. Li. Aerothermoelastic analysis of nonlinear composite laminated panel with aerodynamic heating in hypersonic flow. *Composites Part B: Engineering*, 2014, 56: 830-839.
- [31] Z.G. Song, F.M. Li. Aerothermoelastic analysis and active flutter control of supersonic composite laminated cylindrical shells. *Composite Structures*, 2013, 106: 653-660.
- [32] F.M. Li, Z.G. Song. Flutter and thermal buckling control for composite laminated panels in supersonic flow. *Journal of Sound and Vibration*, 2013, 332(22): 5678-5695.
- [33] F.M. Li, Z.G. Song, Z.B. Chen. Active vibration control of conical shells using piezoelectric materials. *Journal of Vibration and Control*, 2012, 18(14): 2234-2256.
- [34] Z.G. Song, F.M. Li. Active aeroelastic flutter analysis and vibration control of supersonic composite laminated plate. *Composite Structures*, 2012, 94(2): 702-713.
- [35] Z.G. Song, F.M. Li. Active aeroelastic flutter analysis and vibration control of supersonic beams using the piezoelectric actuator/sensor pairs. *Smart Materials and Structures*, 2011, 20(5): 055013.
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