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(Names of Dr. Su's advisees are underlined. Names in boldface type denote corresponding authors.)

Refereed Journal Articles

1. Su, W., and Cesnik, C. E. S., "Nonlinear Aeroelasticity of a Very Flexible Blended-Wing-Body Aircraft," *Journal of Aircraft*, Vol. 47, No. 5, 2010, pp. 1539–1553. (doi: 10.2514/1.47317)
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9. Tsushima, N., and **Su, W.**, "Concurrent Active Piezoelectric Control and Energy Harvesting of Highly Flexible Multifunctional Wings," *Journal of Aircraft*, Vol. 54, No. 2, 2017, pp. 724–736. (doi: 10.2514/1.C033846)
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11. **Su, W.**, and Reich, G. W., “Geometric Scaling of Artificial Hair Sensors for Flow Measurement under Different Conditions,” *Smart Materials and Structures*, Vol. 26, No. 3, 2017, Art. 037002 (9 pp). (doi: 10.1088/1361-665X/aa5a35)
12. **Su, W.**, “Development of an Aeroelastic Formulation for Deformable Airfoils Using Orthogonal Polynomials,” *AIAA Journal*, Vol. 55, No. 8, 2017, pp. 2793–2807. (doi: 10.2514/1.J055665)
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21. Hang, X., Fei, Q., and **Su, W.**, “On Tracking Aeroelastic Modes in Stability Analysis Using Left and Right Eigenvectors,” *AIAA Journal*, Vol. 57, No. 10, 2019, pp. 4447–4457. (doi: 10.2514/1.J057297)
22. **Su, W.**, and Song, W., “A Real-Time Hybrid Aeroelastic Simulation Platform for Flexible Wings,” *Aerospace Science and Technology*, Vol. 95, 2019, Art. 105513 (12 pp). (doi: 10.1016/j.ast.2019.105513)
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25. Qu, S., Zhu, G., Su, W., Swei, S. S.-M., Hashimoto, M., and Zeng, T., “Adaptive MPC of a Six-Rotor eVTOL UAM Aircraft subject to Motor Failure during Hovering,” *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, in press. (doi: 10.1177/09544100211032434)
26. Qu, S., Zhu, G., Su, W., and Swei, S. S.-M., “LPV-Based Transition Flight Control Design for a Tilt-rotor Aircraft,” *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, accepted.
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30. Tsushima, N., Su, W., Wolf, M. G., Griffin, E. D., Whittaker, J. T., and Dumoulin, M. P., “Bending Vibration Monitoring for Flexible Rockets through a Reference Strain Structure,” AIAA-2017-

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41. Tsushima, N., Yokozeki, T., Su, W., and Arizono, H., “Nonlinear Aeroelastic Analysis of Composite Morphing Wing with Corrugated Structures,” Paper 17, Proceedings of the *ASC 33rd Annual Technical Conference*, Seattle, WA, Sep. 24–26, 2018.
42. He, T., Zhu, G., Swei, S. S.-M., and Su, W., “Active Vibration Suppression of BWB Airplane Using Smooth Switching LPV Control,” AIAA-2019-0218, Proceedings of the *60th AIAA/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference (at AIAA SciTech 2019)*, San Diego, CA, Jan. 7–11, 2019.
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51. Su, W., Qu, S., Zhu, G. G., Swei, S. S.-M., Hashimoto, M., and Zeng, T., “A Control-Oriented Dynamic Model of Tiltrotor Aircraft for Urban Air Mobility,” AIAA-2021-0091, Proceedings of the *2021 AIAA SciTech Forum*, Virtual Event, Jan. 11–21, 2021.
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Other Conference Abstracts and Publications

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2. Su, W., “Aeroelastic Modeling of Horizontal Axis Wind Turbine Blades with Geometrically Nonlinear Beam Formulation,” *ASME 2014 International Mechanical Engineering Congress & Exposition*, Montreal, Canada, Nov. 14–20, 2014. [Abstract]
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5. Tsushima, N., and Su, W., “Structural Analysis and Optimization of Flexible Rockets with Reference Strain Structures,” *ASME 2016 International Mechanical Engineering Congress & Exposition*, Phoenix, AZ, Nov. 11–17, 2016. [Abstract]
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Internal Memoranda and Progress Reports

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2. Su, W., “Numeric Analysis and Optimization of Reference Strain Structures for Applications of Fiber Optic Strain Sensors in Flexible Rockets,” Final report to a.i. solutions, Inc., NASA Launch Services Program Special Study LSP-15-011, Apr., 2016, 13 pages.
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