

SciTech 2020

Structural Dynamics Supplemental Information

Additional Subtopic Details

For the “Dynamic Loads, Response, Vibration, and Stability of Aerospace Vehicles”, papers are sought related to

- Launch vehicles, spacecraft, orbital vehicles, and space exploration vehicles
- Rotorcraft, including coaxial compound and tiltrotor configurations
- Flexible aeroelastic vehicles with distributed propulsion
- Micro-air vehicles, flapping-wing aircraft, and other bio-inspired aircraft
- Mission-adaptive (morphing) vehicles, active and passive aeroelastic tailoring

Joint Sessions

The Structural Dynamics Technical Committee will be co-sponsoring multiple joint sessions with other related technical disciplines. Papers are sought in the following areas:

- Wind Turbine/Rotorcraft/Propeller Multi-Physics Modeling Approaches (Applied Aerodynamics and Wind Energy)
- Dynamics and Aeroelasticity of Wind Turbines (Wind Energy)
- Multidisciplinary Optimization & Sensitivity Analysis with Aeroelasticity and Fluid-Structure Interaction (Multidisciplinary Design Optimization)
- Aeroelasticity and Stability of Composite Structures (Structures)
- Aeroelasticity and Crashworthiness of Sailplanes and Ultra-Efficient Aircraft (Applied Aerodynamics)
- Experimental-Computational Efforts in High-Speed Fluid-Structure Interaction (FSI) (Applied Aerodynamics, Fluid Dynamics, and Aerodynamic Measurement Technology)

Technical Chair

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