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## Noise Theory - Papers

* An efficient and robust method for predicting helicopter high-speed impulsive noise
* Frequency-Domain Method for Rotor Self-Noise Prediction
* Sound from a propeller at angle of attack: a new theoretical viewpoint
* Influence of Propeller Design Parameters on Far-Field Harmonic Noise in Forward Flight
* Applicability of Early Acoustic Theory for Modern Propeller Design
* Rotor broadband noise prediction with comparison to model data
* Airfoil self-noise and prediction
* An acoustic analogy formulation for moving sources in uniformly moving media
* Derivation of Formulations 1 and 1A of Farassat
* Maneuvering rotorcraft noise prediction

## Isolated Propeller Validation (Performace and Acoustics) - Papers

* Modeling Multirotor Aerodynamic Interactions Through the Vortex Particle Method (performance validation) (APC 10x 7)
* Applicability of Early Acoustic Theory for Modern Propeller Design (acoustic validation)
* Propeller Wing Aerodynamic Interference (performance validation)
* A summary of NASA research exploring the acoustics of small unmanned aerial systems (acoustic validation) APC - SF (Dia 11.9 x 4.7 ) , DJI -CF (Dia 9.4 in)
* Acoustic characterization of a multi-rotor UAS as a first step towards noise reduction (acoustic validation)
* Acoustic Characterization and Prediction of Representative, Small-Scale Rotary-Wing Unmanned Aircraft System Components (acoustic validation)

## Propeller Wing Interaction Validation - Papers

* Wingtip-mounted propellers: Aerodynamic analysis of interaction effects and comparison with a conventional layout
* Wing Pitching and Loading with Propeller Interference
* Relaxed-wake vortex-lattice method using distributed vorticity elements
* A Higher-Order Vortex-Lattice Method with a Force-Free Wake
* Propeller Wing Aerodynamic Interference (performance validation)
* Aerodynamic interaction between propellers and wings (performance validation)
* Propeller-Wing Interaction Prediction for Early Design
* Hybrid numerical technique for evaluating wing aerodynamic loading with propeller interference
* Higher-order free-wake method for propeller-wing systems
* Quasi-Steady Aerodynamics Steady Aerodynamics Analysis of Propeller-Wing Interaction
* Wingtip-mounted propellers: Aerodynamic analysis of interaction effects and comparison with a conventional layout

## Frequency Based Implementation - Papers

1. Frequency-Domain Method for Rotor Self-Noise Prediction
2. Applicability of Early Acoustic Theory for Modern Propeller Design (acoustic validation)
3. Rotor broadband noise prediction with comparison to model data
4. Sound from a propeller at angle of attack: a new theoretical viewpoint
5. influence of Propeller Design Parameters on Far-Field Harmonic Noise in Forward Flight

## Time Domain (CFD) Implementation - Papers

* An efficient and robust method for predicting helicopter high-speed impulsive noise
* An acoustic analogy formulation for moving sources in uniformly moving media
* Derivation of Formulations 1 and 1A of Farassat
* Maneuvering rotorcraft noise prediction

## Broadband Noise - Paper

* Rotor broadband noise prediction with comparison to model data

## Airfoil self-noise and prediction

## System Validation - Paper

* Influence of Propeller Design Parameters on Far-Field Harmonic Noise in Forward Flight

## Multifidelity Optimization - Papers

* Gradient-Based Propeller Optimization with Acoustic Constraints