

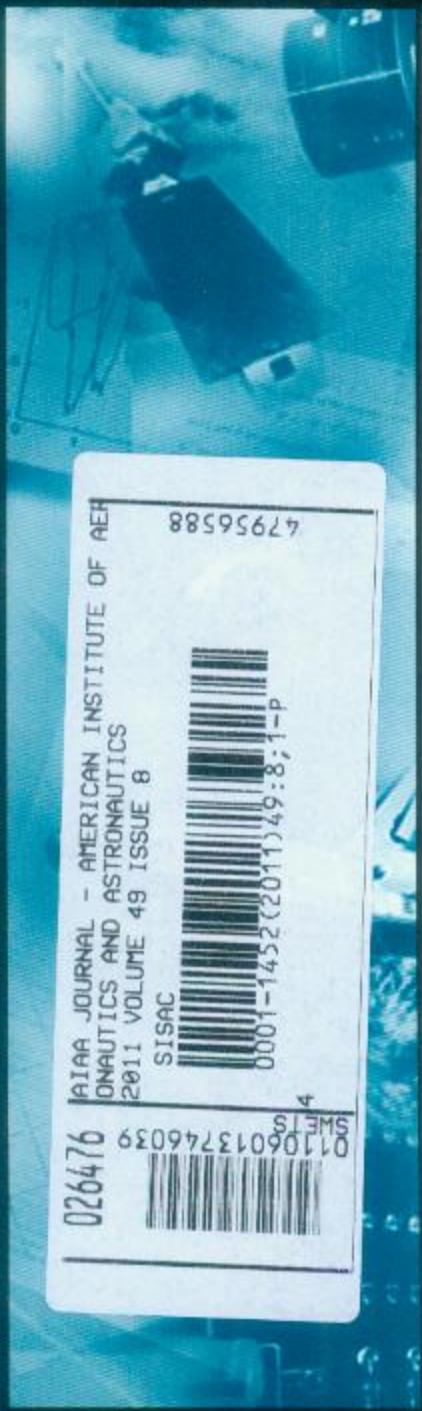
0-116-1-1

月 v.49
n.8
刊

AIAA JOURNAL

VOLUME 49, NUMBER 8

AUGUST 2011



AIRCRAFT TECHNOLOGY, CONVENTIONAL, STOL/VTOL

- | | | |
|--|---|------|
| Metric for Comparing Lifetime Average Climate Impact of Aircraft | E. S. Dallara, I. M. Kroo, I. A. Waitz | 1600 |
| Reduced-Order Modeling of a High-Fidelity Propulsion System Simulation | K. Lee, T. Nam, C. Perullo, D. N. Mavris | 1665 |
| Effects of Trailing-Edge Synthetic Jet Actuation on an Airfoil | O. D. Lopez Mejia, R. D. Moser, D. P. Brzozowski, A. Glezer | 1763 |

FLUID DYNAMICS

- | | | |
|---|--|------|
| Understanding How Chevrons Modify Noise in a Supersonic Jet with Flight Effects | O. Rask, J. Kastner, E. Gutmark | 1569 |
| Space-Time Correlation Measurements in Near Fields of Jets | K. Viswanathan, J. R. Underbrink, L. Brusniak | 1577 |
| Simulation of Helicopter Community Noise in Complex Urban Geometry | D. Casalino, M. Barbarino, A. Visingardi | 1614 |
| High-Speed Boundary-Layer Instability: Old Terminology and a New Framework | A. Fedorov and A. Tumin | 1647 |
| Parameter-Free Simple Low-Dissipation AUSM-Family Scheme for All Speeds | E. Shima and K. Kitamura | 1693 |
| Experimental and Numerical Study of Oscillating Transonic Shock Waves in Ducts | P. J. K. Bruce, H. Babinsky, B. Tartinville, C. Hirsch | 1710 |
| Closed-Loop Control of Lift for Longitudinal Gust Suppression at Low Reynolds Numbers | W. Kerstens, J. Pfeiffer, D. Williams, R. King, T. Colonius | 1721 |
| Active Separation Control with Pulsed Jets in a Critically Loaded Compressor Cascade | M. Hecklau, O. Wiederhold, V. Zander, R. King, W. Nitsche, A. Huppertz, M. Swoboda | 1729 |
| Effects of Flapping Wing Kinematics on Hovering and Forward Flight Aerodynamics | H. Nagai and K. Isogai | 1750 |
| Control of Separated Flow over Swept Missile Fin Using Pitching Oscillations (TN) | J. Riou, E. Gamier, C. Basdevant | 1819 |

INTERDISCIPLINARY TOPICS

- | | | |
|---|---|------|
| On the Coordination of Multidisciplinary Design Optimization Using Expert Systems | A. R. Price, A. J. Keane, C. M. E. Holden | 1778 |
|---|---|------|

Table of Contents continued on back cover



CONTENTS—continued

- Performance of a Multistream Injection Chemical Oxygen—Iodine Laser with Starlet Ejectors D. M. King, D. L. Carroll, T. H. Field, J. K. Laystrom-Woodard, R. J. Driscoll, L. H. Sentman, A. M. Ragheb, G. S. Elliott, W. C. Solomon 1808

STRUCTURAL MECHANICS AND MATERIALS

- Reduced-Order Aerothermoelastic Framework for Hypersonic Vehicle Control Simulation N. J. Falkiewicz, C. E. S. Cesnik, A. R. Crowell, J. J. McNamara 1625
- Characterization and Constitutive Modeling of Composite Materials Under Static and Dynamic Loading I. M. Daniel, J.-M. Cho, B. T. Werner, J. S. Fenner 1658
- Analysis of Conformable Pressure Vessels: Introducing the Multibubble F. J. J. M. M. Geuskens, O. K. Bergsma, S. Koussios, A. Beukers 1683
- Modeling Progressive Failure of Bonded Joints Using a Single Joint Finite Element S. E. Stapleton, A. M. Waas, B. A. Bednarcyk 1740
- Cyclic Buckling Tests Under Combined Loading on Predamaged Composite Stiffened Boxes P. Cordisco and C. Bisagni 1795
- Mixed Formulation for Sensitivity Analysis of Laminated Conical Shells (TN) Y. Goldfeld 1816

BOOK REVIEW

- Fundamentals of Modern Unsteady Aerodynamics* J. I. Ramos 1823

TABLES OF CONTENTS FOR NON-U.S. JOURNALS

- Journal of the Japan Society for Aeronautical and Space Sciences* 1824