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| Nota di contenuto | AEROTECH V: Progressive Aerospace Research; Preface and Editorial Panel; Table of Contents; Chapter 1: Aerodynamics; Numerical Simulation of Noise Radiated from a Blunt Trailing Edge; Further Development of the Kinematic and Aerodynamic Modeling and Analysis of Flapping Wing Ornithopter from Basic Principles; Experimental Study on the Effect of Skin Flexibility on Aerodynamic Performance of Flapping Wings for Micro Air Vehicles; Visualization of Flow Field and Wake over Clean and Under-Loaded Wings; NACA 4415 Wing Modification Using Tubercles - A Numerical Analysis Comparison of Digital DATCOM and Wind Tunnel Data of a Winged Hybrid Airship's Generic Model An Experimental and Computational Fluid Dynamic Study of Axis-Symmetric Coanda Configuration for VTOL MAV Applications; Sensing Unsteady Pressure on MAV Wings: A New Method for Turbulence Alleviation; Chapter 2: Aerospace Structure; Multiple Crack Interactions in Bi-Material Plates under Mode I Tension Loading; Finite Element Computational Modeling and Simulation Studies of Non-Penetrating Impact Using Fundamental Principles; LCO Flutter Analysis on Coir Pressed Mat Fibre/Epoxy Composites Plate Quasi Static Analysis of a Biocomposite Aircraft Radome Modal Analysis of Thin Walled Multi-Cell Multi-Tapered Composite Beams of Closed Cross Sections; On the Dynamic Model of a Functionally Graded Spinning Structural Element of an Aircraft Appendage; Chapter 3: |

Propulsion; A Computational and Analytical Study into the Use of Counter-Flow Fluidic Thrust Vectoring Nozzle for Small Gas Turbine Engines; Computational Exploration of a Two-Spool High Bypass Turbofan Engine's Component Deterioration Effects on Engine Performance; CFD Validation and Analysis of a Single-Stage Axial Compressor

Aerodynamics Performance of Endwall Film Cooling under the Influence of Purge Flow in High Pressure Turbine Cascade Spray Characteristics of an Internal-Mix Airblast Atomizer; Computational Approach in Sizing of Pulsejet Engine; Chapter 4: Aerospace Design; Application of Coanda Jet for Generating Lift of Micro Air Vehicles - Preliminary Design Considerations; Performance Calculations within the Conceptual Design Process of Hand-Launched Aircraft; Conceptual Design of Flapping Wing Using Shape Memory Alloy Actuator for Micro Unmanned Aerial Vehicle

Design and Analysis of an Aircraft Composite Hinge Bracket Using Finite Element Approach Reverse Engineering of a Fixed Wing Unmanned Aircraft 6-DoF Model for Navigation and Guidance Applications; Development of Blimp Platform for Aerial Photography; Autonomous Aerial Hard Docking of Fixed and Rotary Wing UAVs: Task Assessment and Solution Architecture; Aeroelastic Tailoring of Composite Wing Design Using Bee Colony Optimisation; Chapter 5: Aerospace System Performance; The Application of Multiple Vibration Neutralizers for Vibration Control in Aircraft Effects of Aircraft Tail Configurations on Sensitivity to Yaw Disturbances

Sommario/riassunto

Collection of selected, peer reviewed papers from the AEROTECH V Conference, October 29-30, 2014, Kuala Lumpur, Malaysia. The 83 papers are grouped as follows: Chapter 1: Aerodynamics, Chapter 2: Aerospace Structure, Chapter 3: Propulsion, Chapter 4: Aerospace Design, Chapter 5: Aerospace System Performance, Chapter 6: Space Systems, Chapter 7: Avionics and Flight Management, Chapter 8: Aerospace Reviews, Chapter 9: Supporting Technologies for Aerospace
