

Journal of Aerospace Sciences and Technologies

ISSN 0972-950X

VOLUME 61

NUMBER 3

AUGUST 2009



Apollo 11 Mission Lift-off on 16 July 1969

Chandrayaan 1 Lift-off on 22 October 2008

A QUARTERLY JOURNAL FROM THE AERONAUTICAL SOCIETY OF INDIA

CONTENTS

BRIJESH RAGHAVAN, N. ANANTHKRISHNAN: Small-Perturbation Analysis of Airplane Dynamics with Dynamic Stability Derivatives Redefined	365
A. MISRA, A. SINGHAL, A.K. GHOSH, K. GHOSH: Wind Tunnel Study of a Grid Fin Stabilized Guided Projectile	381
R.S. TARNACHA, S.N. SINGH, LAJPAT RAI : Flow Development of Multi-Annular Jets in a Confinement : Effect of Expansion Ratio	390
J.S. RAO, S. KIRAN, J.V. KAMESH, MADHUSUDAN A. PADMANABHAN, SATISH CHANDRA: Topology Optimization of Aircraft Wing	402
V. LAXMAN, C. VENKATESAN: Formulation of a Computational Aeroelastic Model to Predict Trim and Response of a Helicopter Rotor System	415
TECHNICAL NOTE	
SRINIVAS KODIYALAM, MARK KREMENETSKY, STAN POSEY: Balanced HPC Infrastructure for CFD and Associated Multi-Discipline Simulations of Engineering Systems	434
RONY C. VARGHESE, C. UNNIKRISHNAN, B. SUNDAR, SUSAMMA JACOB, GEORGE JOSEPH: Thermo Structural Integrity of a Closure Assembly for the Base Region of a Re-entry Module	444