



# Journal of Aerospace Sciences and Technologies

ISSN 0972-950X

VOLUME 57

NUMBER 3

AUGUST 2005



A QUARTERLY JOURNAL FROM THE AERONAUTICAL SOCIETY OF INDIA

## CONTENTS

**R.M. VASAGAM:**

Pathways for Indian Aerospace Programmes: Next 25 Years

Vol. 57 , No.3, Aug 2005, pp.299-300

**R.V. PERUMAL:**

Launch Vehicle Technology Development and Perspectives

Vol. 57 , No.3, Aug 2005, pp.301-305

**RUPAL SINGHVI, C. VENKATESAN:**

Modeling of Piezo Stack Actuators and their Application in  
Active Vibration Control

Vol. 57 , No.3, Aug 2005, pp.306-322

**S. K. PATEL, B. DATTA GURU, K. RAMACHANDRA:**

Experimental and Numerical Prediction of Surface Crack  
Growth in Fatigue in a Finite Width Plate

Vol. 57 , No.3, Aug 2005, pp.323-331

**S. JANA, V. ARUN KUMAR:**

5-Axes Levitation of a Rotor By Active Magnetic Bearings  
Employing Direct Output Feedback Control

Vol. 57 , No.3, Aug 2005, pp.332-338

### TECHNICAL NOTE

**ASHOK JOSHI:**

Dynamics of Flight Control Surfaces under Variable  
System Pressure and Actuation Compliances

Vol. 57 , No.3, Aug 2005, pp.339-344

**R. VELMURUGAN, K. KARTHIKEYAN:**

The Reinforcement Effect of Nanoclay on the Damping

## Characteristics of Hybrid Laminated Composites

Vol. 57 , No.3, Aug 2005, pp.345-353

**S. LATHESWARY, K.V. VALSARAJAN, Y.V.K. SADASIVA RAO:**

Analysis of Smart Composite Plates -A Finite Element Approach

Vol. 57 , No.3, Aug 2005, pp.354-364

**A.R LAKSHMANAN, R. RAMASAMY:**

Computer Aided Design Techniques for Dynamically Loaded  
Journal Bearings

Vol. 57 , No.3, Aug 2005, pp.365-373

## ENGINEERING

**GURUMURTHY VIJAYAN IYER:**

Some Practical Hints on Preservation of Aircraft Engines using a  
Rig From Corrosion Problems

Vol. 57 , No.3, Aug 2005, pp.374-382