

## Papers Published

### Papers Published by S C Gupta

#### **Computational Aerodynamic Design Concepts for Futuristic Air Combat**

ICAS Paper No. 88-4 4.4.3  
16<sup>th</sup> International Council of Aeronautical Sciences  
August 28 - September 2, 1988, Israel.

#### **Aerodynamic Characteristics of Forward Sweep**

AIAA Paper No. 90-3041  
8<sup>th</sup> AIAA Applied Aerodynamic Conference  
August 20-22, 1990, Portland, USA.

#### **Computing Aerodynamics on Parallel Computers**

ICAS Paper No. 90-6.8.1.  
17<sup>th</sup> International Council of the Aeronautical Sciences  
September 9-14, 1990, Stockholm, Sweden.

#### **Stability Considerations for Enhanced Maneuverability**

ICAS Paper No. 92-2.10.1  
18<sup>th</sup> International Council of the Aeronautical Sciences  
September 21-25, 1992, China.

#### **Aerodynamic Airworthiness Assessment for Combat Aircraft**

ICAS Paper No. 94-1.7.4  
19<sup>th</sup> International Council of the Aeronautical Sciences  
September 18-23, 1994, Anaheim, USA.

#### **Flying Qualities Regarding Unstable Fighter Aircraft – An Overview**

AIAA AFM/NPU Conference  
June 11-14, 1996, XI'AN, China.

#### **Computational Algorithms for the Configuration Design**

ICAS Paper No. 98-6.4.5  
21<sup>st</sup> International Council for the Aeronautical Sciences  
September 13-18, 1998, Melbourne, Australia.

#### **Transonic Flow Computations Past Optimally Warped Wings**

ICTACEM – 98, IIT Kharagpur  
December 1-5, 1998, India.

#### **Advancements in Computational Techniques for Aerodynamic Strategic Design**

AIAA Atmospheric Fluid Mechanics Conference  
August 11-14, 2003, Austin, Texas, USA.

#### **Handling Qualities – Fighter Aircraft**

Paper No. ICAS 2004. 4.9.4  
24<sup>th</sup> International Council for the Aeronautical Sciences  
August 30 - September 3, 2004, Yokohama, Japan.

### Papers Published by Dr. RMO Gemson

#### **Modeling and Simulation of Aircraft Engine Sensors Using Artificial Neural Network Based MLP Technique**

Paper presented in National Level Conference at Dr MGR University, Chennai, India.  
TECHASTRA08, India, 17<sup>th</sup> & 18<sup>th</sup> April 2008  
Co-author with Md Shahariaz

#### **Application of Auto Associative Neural Networks Architecture for Aircraft Engine System Sensors Computation, Fault Detection and Isolation**

Paper presented in International Conference 3 on Wireless Networks and Embedded Systems "WECON-08"  
Chandigarh, India, 18-19, Oct 2008  
Power Generation for Manned Space Missions 5th International Energy Conversion Conference & Exhibit Missouri USA June 2007 Paper presented (Paper No. AIAA-2007-4753)  
Co-author with Md Shahariaz

#### **Numerical simulation of Transient Flows in Inert Simulators of Solid Rocket Motors**

Paper presented (Paper No. AIAA-2007-5800)  
43<sup>rd</sup> AIAA/ASME/ SAE /ASEE Joint Propulsion Conference & Exhibit, Ohio, USA July 2007  
Co-author with Yasir Khan

#### **Studies on Dump Diffusers for Modern Aircraft Engines**

Paper presented (Paper No. AIAA-2007-5161)  
43<sup>rd</sup> AIAA/ASME/ SAE /ASEE Joint Propulsion Conference & Exhibit, Ohio, USA July 2007.  
Co-author with Yasir Khan

### Papers Published by Other Faculty

#### **Modeling and flow Analysis of Modern Fighter Aircraft Configuration using CFD**

RAET-2011, Nishanth P and S Srinivasan

#### **Multi-disciplinary Optimization of an Aircraft Wing Box**

National Conference on Mechanical Engineering at M.S.R.I.T, Bangalore, Deepa M S

#### **Multi-Disciplinary Design Optimization of an Aircraft Wing Box using iSIGHT**

International Conference on Total Engineering, Analysis & Manufacturing Technologies at TEAMTECH, Bangalore, Deepa M S

## Grants

---

### **Project:**

- Experimental Studies on Complex Swept Rotor Blades

### **Brief About Project:**

- The project Investigates the effects of various sweep angles for a Helicopter main rotor blade. This project shall be executed in the wind tunnel facility available in the Department of Aeronautical Engineering.
- This project is funded by Aeronautical Research & Development Board, Government of India

### **Faculty:**

- S C Gupta, *Professor, Principal Investigator, Department of Aeronautical Engineering.*

## Projects

---

- Narasanna, Raghu.M, & Prashant Manvi *et.al* carried out a Project on” MODELING AND ANALYSIS OF RADOME AND ITS VIBRATION RIG” in DEFSYS, Bangalore.
- Megha.P, Kiranya .C & Ashwini.M *et.al* carried out a Project on” ANALYSIS OF TAIL ROTOR BLADE” in HAL, Bangalore.
- J.John Baptist, Sandeep Kumar M & Shashi Kumar J *et.al* carried out a Project on “DESIGN AND ANALYSIS OF INTERIOR CABINET OF TYPICAL BUSINESS JET” in MAHINDRA SATYAM, Bangalore.
- Bopanna.S.P, Sandeep.S K.T.Vikas Nithin Malathesh carried out a project on “Design and analysis of Locking System of Canopy” in HAL / ARDC
- Sherley, Shwetha K,& Deepa S.M carried out a Project on “Analysis of hydraulic motor driven generator bracket” at HAL, Bangalore

## *Faculty and Student Achievements*

---

### *Faculty Achievements*

- *Institution of Engineers (India) conferred Fellowship on Dr. R.M.O Gemson.*
- *The following Faculty members received the reward for achieving 100% results in VTU exams for the academic year 2010-2011.*
  - Prof R Shanmugham
  - Sanjeev Palekar
  - M S Deepa

### *Student Achievements*

- Mr. Prithvi Raj K, VTU Gold Medalist has secured 61<sup>st</sup> rank in the Feb 2011 GATE exam.
- Mr. Narasanna has scored centum in Gas Turbine Technology in the 7<sup>th</sup> sem VTU examinations.
- Students take active participation in Aero-modeling club and they have built a Remote control model.
- Students represent VTU in interuniversity sports & games events.

## *University Ranks*

---

### Academic Year 2009 – 2010

- The Management, Faculty and Students of MVJ College of Engineering Congratulate **Mr.Prithvi Raj K** for obtaining the **1<sup>st</sup> Rank** in the University

