

Contents

Shashank Khurana, Kojiro Suzuki and
Ethirajan Rathakrishnan

Flow Field around a Blunt-nosed Body with Spike — 217

Hung-Cheng Yen, Yung Jen Cheng, Jeng-Min Huang,
Chi-Wen Lu and Yeah-Hann Tsai

**The Flow Analysis and Performance Improvement of the
Flow Return System in High Pressure Fans — 223**

Yuan Hepeng, He Liming, Yu Jinlu and Jin Tao

**Numerical Investigation of Heat Transfer Characteristic
on Scalelike Platelet Inner Duct — 235**

Efrén M. Benavides and Gregorio L. Juste

**Analytical Calculation of Stall-inception and Surge Points
for an Axial-flow Compressor Rotor — 243**

Hong-Zhong Huang, Jie Gong, Ming J. Zuo,
Shun-Peng Zhu and Qiang Liao

**Fatigue Life Estimation of an Aircraft Engine Under
Different Load Spectrums — 257**

David A. Cendón, Borja Erice, Francisco Gálvez and
Vicente Sánchez-Gálvez

**Numerical Simulation of Tangling in Jet Engine
Turbines — 269**

Valeriu Drăgan

**Statistical Turbofan Architecture Management for Use
in a Supercirculation Wing Aircraft — 283**

Fangyuan Lou, Ryan Fleming and Nicole L. Key

**Calculating High Speed Centrifugal Compressor
Performance from Averaged Measurements — 289**

Yu Yan, Wei Fan and Yang Mu

**Preliminary Experimental Investigation on Detonation
Initiation in the Ejector of a Pulse Detonation Rocket
Engine — 299**

Yanfeng Li, Hong-Zhong Huang, Shun-Peng Zhu, Yu Liu
and Ning-Cong Xiao

**An Application of Fuzzy Fault Tree Analysis to
Uncontained Events of an Areo-Engine Rotor — 309**

