

## TABLE OF CONTENTS

Volume 1    Number 3

September 2011

**The Precise Inner Solutions of Gravity Field Equations of Hollow and Solid Spheres and the Theorem of Singularity**

X. C. Mei.....109

**The Influence of the Planets, Sun and Moon on the Evolution of the Earth's Axis**

J. J. Smulsky.....117

**Short-Term Orbit Prediction with  $J_2$  and Mean Orbital Elements**

S. Gupta, M. X. J. Raj, R. K. Sharma.....135

**Observational Evidences for Extremely Strong Magnetic Fields in Solar Flares**

V. G. Lozitsky.....147

**Effect of Altitude, Right Ascension of Ascending Node and Inclination on Lifetime of Circular Lunar Orbits**

S. Gupta, R. K. Sharma.....155

**Do Very Short Gamma Ray Bursts Originate from Primordial Black Holes? Review**

D. B. Cline, S. Otwinowski, B. Czerny, A. Janiuk.....164

---

The figure on the front cover is from the article published in *International Journal of Astronomy and Astrophysics*, 2011, Vol. 1, No. 3, pp. 155-163 by Shraddha Gupta, Ram Krishan Sharma.