



The THEMIS Mission (Hardback)

By -

Springer-Verlag New York Inc., United States, 2009. Hardback. Book Condition: New. 236 x 156 mm. Language: English . Brand New Book. J.L. Burch*V. Angelopoulos Originally published in the journal Space Science Reviews, Volume 141, Nos 1-4, 1-3. DOI: 10.1007/s11214-008-9474-5 (c) Springer Science+Business Media B.V. 2008 The Earth, like all the other planets, is continuously bombarded by the solar wind, which is variable on many time scales owing to its connection to the activity of the Sun. But the Earth is unique among planets because its atmosphere, magnetic field, and rotation rates are each significant, though not dominant, players in the formation of its magnetosphere and its reaction to solar-wind inputs. An intriguing fact is that no matter what the time scale of solar-wind variations, the Earth's response has a definite pattern lasting a few hours. Known as a magnetospheric substorm, the response involves a build-up, a crash, and a recovery. The build-up (known as the growth phase) occurs because of an interlinking of the geomagnetic field and the solar-wind magnetic field known as magnetic reconnection, which leads to storage of increasing amounts of magnetic energy and stress in the tail of the magnetosphere and lasts...



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