Solar drag system

Increased solar activity negatively impacts satellites in orbit, thereby affecting businesses and organisations depending on space technologies, as well as vendors responsible for SLAs.

Once deployed, the system creates the drag necessary to passively deorbit a spacecraft, launch vehicle or other space asset. The standard 12.5m 2 dragsail is deployed and tensioned using ...

Drag missions for study as part of the Advanced sails increase the aerodynamic drag on Low Earth Exploration Systems (AES) Program, both of Orbit (LEO) spacecraft, providing a lightweight which ...

This technology represents a next-generation high-risk, high-payoff solar sail system for the launch, deployment, stabilization and control of very large (square kilometer class) solar sails, enabling very ...

Solar sailing is a propulsion method which takes advantage of solar radiation pressure (SRP) as main source of thrust. However, around Earth, other sources also affect the solar-sail ...

To minimize the drag, the solar panels should be aligned with the satellite orbital velocity. At the same time, to maximize the power input, the solar panel surfaces should point toward the Sun.

This paper presents a new control law that combines solar radiation pressure and atmospheric drag as a forms of actuation with thrusters to reduce the fuel nece

Solar and drag sail technology is entering the mainstream for space propulsion applications within NASA and around the world. Solar sails derive propulsion by reflecting sunlight from a large, mirror- like sail ...

Usually, solar sails are proposed to be used to disperse spacecraft. But the Spinnaker project acts on the contrary -- it slows them down. The concept of a drag solar sail is designed for ...

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