Title: Solar Propulsion Module System
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Solar electric propulsion combines solar panels on spacecraft and one or more electric thrusters, used in tandem. There are many different types of electric thrusters, including a so-called ion ...

High-power solar electric propulsion is a key technology that has been prioritized because of its significant exploration benefits in cis-lunar space and crewed missions to Mars.

the NASA SEP TDM-led Advanced Electric Propulsion System (AEPS) Project. The power system architecture consists of twelve propulsion strings, providing roughly 150 kW of power for ...

Maxar Space Systems is building Gateway"s Power and Propulsion Element (PPE), the module that will provide the space station with power, maneuvering, attitude ...

Solar electric propulsion combines solar panels on spacecraft and one or more electric thrusters, used in tandem. There are many different types of electric thrusters, including a so-called ion thruster, a term that is often incorrectly used to describe all types of electric thrusters. It is also possible to generate electricity from the Sun without using photovoltaic panels, such as with solar concentrators and a Stirling engine.

Gateway, soon to be the most powerful solar electric spacecraft, features innovative solar arrays and propulsion technology. This module supports critical Artemis ...

Why Consider Solar Electric Propulsion? Some Factors Influencing Spacecraft Mass Allocations: Mission: DV, duration, environments Technology changes: launcher size/capability, payload ...

With SEP, the spacecraft collects energy from the Sun via solar arrays to generate thrust, eliminating many of the needs and limitations of storing propellants onboard. That solar ...

NEXT-C: NEXT-C is a next-generation solar electric propulsion system designed and built by L3Harris based on mission-proven technology developed at NASA"s GRC. The 7kW NEXT-C ...

Solar Electric Propulsion (SEP) is a type of propulsion system that uses solar energy to generate electricity,

which is then used to power electric thrusters. These thrusters ...

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