
Solar Propulsion Module System

What is solar electric propulsion?

NASA Glenn leads the Solar Electric Propulsion project for the agency. Meet Dr. Peter Peterson, an electric propulsion engineer at NASA's Glenn Research Center. Electric propulsion technologies deliver the right mix of cost savings, safety and superior propulsive power to support a variety of next-generation journeys to destinations in deep space.

What is NASA's solar electric propulsion (SEP) project?

NASA's Solar Electric Propulsion (SEP) project is developing critical technologies to enable government and commercial customers to extend the length and capabilities of ambitious new exploration and science missions.

What is a propulsion module?

Propulsion modules are modules designed to move airships and landships. Modules are divided into two categories, landship propulsion and airship propulsion. A steam-powered propeller, used to move the ship forwards and back. A little steam propeller, able to shift smaller ships. A massive steam-powered propeller with a vertical chimney.

What is the advanced electric propulsion system?

Testing of Gateway's revolutionary propulsion system, known as the Advanced Electric Propulsion System, begins at NASA's Glenn Research Center. In-space electric propulsion systems, such as SEP, tout extremely high fuel economy at lower thrust, providing mission flexibility and capabilities not achievable using traditional propulsion systems.

The Tiny Satellite Position-Controlled Propulsion Module is a compact monopropellant propulsion system using non-toxic ADN-based propellant. Designed for micro ...

Abstract: A cost-constrained, solar electric propulsion (SEP) technology demonstration mission (TDM) is described. The mission is fully compliant with the key ...

In March 2024, Maxar Space Systems completed the spacecraft critical design review and delivered the spacecraft structure to the propulsion lab to begin propulsion ...

Velocity Delta Advanced Electric Propulsion System Broad Agency Announcement Busek Hall Thruster Dual Axis Solar Electric Propulsion Module Engineering Development Unit ...

ExoTerra's Courier is a 12U solar electric propulsion module delivering up to 1270 m/s and 2U of payload in a 12U CubeSat. Courier is based on ExoTerra's Halo electric propulsion system, ...

A Study Report, prepared by an international Joint Study Group, is being finalized, entitled "Advanced Interplanetary Missions Using Nuclear-Electric Propulsion". This IAF-paper ...

Solar Electric Propulsion (SEP) is an advanced technology ideally suited for long-duration space missions requiring high efficiency and low-thrust propulsion. SEP systems ...

The Micro Cathode Arc Propulsion Module is a critical subsystem for orbit maintenance and attitude control of micro- and nano-satellites. It utilizes solid propellant and ...

Lunar Module Propulsion Summary Define the systems for LM Propulsion and control List the times during

the mission at which each system was used Describe the basic ...

European researchers are developing miniaturized space propulsion technology that is propellant-free and based on electrodynamic tethers integrating perovskite-copper ...

Credit: Maxar Space Systems Key Hardware Installations Underway Technicians install key hardware on the element's Propulsion Bus Module following installation of both ...

The Integrated Propulsion Structure Module adopts a monopropellant propulsion system utilizing a green propellant (hydroxylammonium nitrate, HAN-based). The system ...

This slide presentation describes the propulsion system for the Apollo Lunar Module (LM). It defines the systems for the LM propulsion and the control system. It lists the times during the ...

The National Aeronautics and Space Administration (NASA) Solar Electric Propulsion Technology Demonstration Mission (SEP TDM), in conjunction with PC Krause and ...

Abstract: Solar-powered electric propulsion systems can operate in multiple modes and their operation is coupled to the power generated by solar arrays. However, the power ...

With qualification complete SSL saw an opportunity to market a full space exploration Solar Electric Propulsion (SEP) system. This system consists of heritage 100V ...

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