The function of the spacecraft solar container device is

This paper investigates the application of reflectivity control devices in spacecraft attitude control. In reflectivity control devices, in particular, the polymer-dispersed liquid-crystal type, ...

The special container only functions as a transport, packaging and security unit for the largely pre-assembled photovoltaic system. In this way, the shell of the solar panels is completely unfolded.

A spacecraft is essentially a vehicle designed for space travel or operation in outer space. Spacecraft systems are fundamental to meeting mission objectives, whether for Earth observation, ...

IntroductionState-Of-The-Art - Primary StructuresState-Of-The-Art - MechanismsState-Of-The-Art - Polymeric Additive ManufacturingRadiation Effects and Mitigation StrategiesSummaryReferencesSpacecraft commonly contain onboard devices whose function are based on mechanical movement (i.e.: slide, roll, rotate, separate, unfold, or spin) to either modify part of the spacecraft"s geometry or to ensure operational function of a component or instrument. These devices are known as mechanisms, and as spacecraft become more sophisticated with ...?nasa.gov???????.b_wikiRichcard_noHeroSection{content-visibility:auto;contain-intrinsic-size:1px 218px}#b_results .b_wikiRichcard p{display:inline}.b_wikiRichcard .b_promoteText{font-weight:bold}.b_wikiRichcard .tab-head{margin-bottom:var(--smtc-gap-between-content-x-small)}#b_results>li .b_wikiRichcard .wikiRichcard_heroSection{padding-bottom:var(--smtc-gap-between-content-small)}#b_results>li .b_wikiRichcard .wikiRichcard_heroSection p{color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}#b_results>li .b_wikiRichcard .tab-content p,#b_results>li .b_wikiRichcard .tab-content a{color:var(--smtc-ctrl-rating-icon-foreground-filled)}#b_results>li .b_wikiRichcard .tab-container a{border-bottom:1px dashed var(--smtc-stroke-ctrl-on-neutral-rest)}#b_results>li .b_wikiRichcard a.b_mopexpref{border-bottom:0}#b_results>li .b_wikiRichcard line>a:hover{background-color:transparent;text-decoration:none}#b_results>li .b_wikiRichcard a[href*="wikipedia "],#b_results>li .b_wikiRichcard a[href*="wikipedia "]:hover,#b_results .b_wikiRichcard .wiki_attr a,#b_results .b_wikiRichcard .wiki_attr a:hover{border-bottom:0}#b_results>li .b_wikiRichcard a[href*="wikipedia "]:hover,#b_results .b_wikiRichcard .wiki_attr a:hover{text-decoration:underline;background-color:var(--smtc-background-card-on-primary-default-rest)}#b_results>li .b_wikiRichcard_noHeroSection .b_wikiRichcard p{color:var(--bing-smtc-foreground-content-neutral-secondary-alt);display:-webkit-box;-webkit-line-clamp:5;-webkit-box-orient:vertical;overflow:hidden;padding-bottom:0}.b_wikiRichcard_noHeroSection .b_imagePair .b_wikiRichcard_image{float:right;margin-top:var(--smtc-padding-ctrl-text-side)}.b_wikiRichcard_noHeroSection .b_wikiRichcard

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background-color: #ffffff; } #tabcontrol_18_413BBC_navr .sv_ch, #tabcontrol_18_413BBC_navl .sv_ch { fill: #444; } #tabcontrol_18_413BBC_navr:hover .sv_ch, #tabcontrol_18_413BBC_navl:hover .sv_ch { fill: #111; } #tabcontrol_18_413BBC_navr.tab-disable .sv_ch, #tabcontrol_18_413BBC_navl.tab-disable .sv_ch { fill: #444; opacity:.2; }Wikipedia?????Solar panels on spacecraft - WikipediaOverviewImplementationHistoryUsesIonizing radiation issues and mitigationTypes of solar cells typically usedSpacecraft that have used solar powerFuture usesSolar panels need to have a lot of surface area that can be pointed towards the Sun as the spacecraft moves. More exposed surface area means more electricity can be converted from light energy from the Sun. Since spacecraft have to be small, this limits the amount of power that can be produced. All electrical circuits generate waste heat; in addition, solar arrays act as optical and t...

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A spacecraft system incorporating a sunshade in accordance with embodiments of the present disclosure generally includes a spacecraft bus, instrument, and the sunshade. The spacecraft bus ...

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