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Torque Equilibrium Attitude and Control Moment Gyroscopes

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It's another milestone event for the UAE as the second CubeSat, designed and built by students, is now ready to implement and test software modules ...

Khalifa University students' DhahiSat
deployed into its orbital slot

To date, flying in low-earth orbit at 575 kilometers ... in length. The Tyvak spacecraft features an advanced and stable

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attitude control system that features three-star trackers, four ultra ...

LLNL/Tyvak space telescope goes into orbit
Soviet cosmonauts surpassed Skylab's
endurance records, and Soviet space officials
spoke of establishing permanent stations in
earth orbit ... to control the spacecraft's
attitude without using ...

Space Station User's Guide
The Interim Cryogenic Propulsion Stage for

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NASA's first Space Launch System test flight was stacked on top of the rocket July 5.

Credit: NASA/Kim Shiflett The upper stage for the first flight of ...

Upper stage added to SLS stack in Vehicle Assembly Building

China's Mars rover Zhurong has given us a nice close-up look at some of the vital gear it used to land safely on the Red Planet in May. On Monday (July 12), Zhurong rolled up to investigate its ...

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China's Mars rover Zhurong just found its parachute and backshell (video)

Two Chinese astronauts headed outside the country's space station Saturday for the second-ever spacewalk in China's space program, and the first staged from the new Tiangong complex in low Earth orbit ...

Chinese astronauts complete first spacewalk outside new space station

The Orion spacecraft will fly into orbit around ... are you using and if all you're

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doing is attitude control you really don't burn prop very quickly or if you were docked to the LOP-G ...

Digging into the details of Orion's EM-1 test...

We're pretty good at putting people and machines into orbit ... credit card-sized spacecraft with sensors, cameras, communications, and even MEMS thrusters for attitude control.

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Credit Card Sized Spacecraft Poised To Sail To Alpha Centauri

It was deployed into orbit from Northrop Grumman's Cygnus resupply spacecraft ... implement and test software modules for attitude determination and control subsystems (ADCS).

Satellite designed by UAE students reaches orbit

As the pace and ambition of space exploration accelerates, preventing Earth-born organisms from hitching a ride has become more urgent

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than ever ...

Safe space: the cosmic importance of planetary quarantine

The stacking work for Artemis 1 is the first-time an SLS flight vehicle is being put together, and the deliberate process is consuming some of the “assessed risk” time in the schedule. EGS expected ...

Artemis 1 ICPS stage from ULA added to SLS stack

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Maxar Completes Power and Propulsion Element Preliminary Design Review. Press Release
From: Maxar Technologies Posted: Monday, July 12, 2021 . Maxar Technologies (NYSE:MAXR) (TSX: ...

Maxar Completes Power and Propulsion Element Preliminary Design Review
The small spacecraft is currently in orbit at about 720 km ... The flight controllers also tested the satellite's attitude control system. They put that system into solar sailing mode for an ...

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LightSail 2 is sending home new pictures of Earth

In 2014, the satellite's attitude control system failed ... The 2,900 kg spacecraft, along with 33 other small satellite payloads, rode to orbit successfully aboard a Soyuz-2-1b.

Russia's Newest Weather Satellite May Have Been Killed By Space Junk

The mechanical arm is designed to ensure the

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safe and reliable operation of the space station in orbit, to help the astronauts in ... Restricted by the attitude control of the lab modules, they can't ...

China Focus: Mechanical arm is Chinese astronauts' space helper
DhabiSat's successful deployment marks another milestone in UAE's space exploration
DhabiSat ... and test software modules for attitude determination and control subsystems (ADCS).

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