

What does ADCS stands for?

A Attitude determination and control system

0 

B Antibody–drug conjugates

0

C Guidance, Navigation, Control

0

D It's an abbreviation of the thrusters on a spacecraft

0

What is the typical Euler sequence used in space?

A YPR

0 

B PYR

0

C RYP

0

D The order does not matter

0

What does the gravity gradient torque tend to do on an elongated object on orbit?

A the long axis will tend to align with the velocity vector 0

B the short axis will tend to align with the velocity vector 0

C the long axis will tend to align with the direction of gravity force 0

D the short axis will tend to align with the direction of gravity force 0

Which statement is false about magnetic torquers?

A Magnetic torquers are reliable 0

B They need only a very small magnetic field to work 0

C They need only in LEO 0

D They are lightweight 0

How many thrusters are needed for pure rotation of a spacecraft?

A 6 0

B 10 0

C 12 0

D 16 0

Which statement is false about reaction wheels?

- A They use the conservation of angular momentum? 0
- B If the vehicle needs to change orientation, the angular rotation speed of the wheel is increased. 0
- C The angular rotation of the wheel is opposite to the vehicle. 0
- D The angular rotation of the wheel is in the same direction as the vehicle. 0

Which electrical power systems have been used on spacecraft?

A Batteries

0 

B Fuel cells

0 

C Solar panels

0 

D Radioisotope Thermoelectric Generators (RTGs)

0 

What are the typical losses during an ascent to space?

- A Gravity loss 0
- B Human error 0
- C Drag loss 0

The Russian Plesetsk Cosmodrome is at a latitude of 62.9°N . What is the minimal inclination of the orbit of a spacecraft launched from there?

- | | | |
|---|--------------------------------|---------------------------------------|
| A | 98.2° | 0 |
| B | 0° if launched due East | 0 |
| C | 80° | 0 |
| D | 62.9° | 0 <input checked="" type="checkbox"/> |

What are the effects of going through the atmosphere?

A High heat load

0

B Deceleration

0

C Speed increase

0

D High drag on the vehicle

0