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Mechanisms

The dynamics of the spacecraft structures is of fundamental importance to guarantee the appropriate performance, and similarly the implementation of mechanisms to enable specific functions, ranging from attitude control to deployment of various elements and it is interlinked with the

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spacecraft structural design.

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Structures and Mechanisms involves all activities connected to the launcher and satellite structure and the moving parts associated with it. The structure provides a strong supporting framework

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to house payloads, instruments and
satellite subsystems, especially through
the stresses of launch. Moving
mechanisms attached to the rigid
structure are crucial to mission success.

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designed to achieve the following aims..
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overview of the issues that need to be
addressed in the design of spacecraft
structures and mechanisms., giving
them an appreciation and understanding
of the development of the whole
spacecraft structural design process

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Compliant bistable mechanisms are monolithic devices with two stable equilibrium positions separated by an unstable equilibrium position. They show promise in space applications as nonexplosive release mechanisms in

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deployment systems, thereby eliminating friction and improving the reliability and precision of those mechanical devices. This paper presents both analytical and numerical models ...

Bistable Mechanisms for Space Applications

Spacecraft propulsion is any method

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used to accelerate spacecraft and artificial satellites.Space propulsion or in-space propulsion exclusively deals with propulsion systems used in the vacuum of space and should not be confused with launch vehicles.Several methods, both pragmatic and hypothetical, have been developed each having its own drawbacks and advantages.

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