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Spacecraft structures and mechanisms research | University

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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 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.

ESA - Structures and Mechanisms - European Space Agency

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Methods of Teaching / Learning. The learning and teaching strategy is designed to achieve the following aims.. To provide the students with an 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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Assessment criteria of knowledge. The evaluation is based primarily on the verification of the basic knowledge necessary for the design of aerospace structures and mechanisms (strenght analysis, fatigue, fracture mechanics, joints, bearings, gears). The uncertainty of these skills is not allowed.

Università di Pisa - Valutazione della didattica e ...
Space Mission Structures: From Concept to Launch SMS
History First version developed by Tom Sarafin of Instar in 1995. □Based on the book Spacecraft Structures and Mechanisms: From Concept to Launch (SSAM) Book development jointly funded by Martin Marietta and many U.S.

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Mechanical engineering for the design of the spacecraft structures and mechanisms, as well as the selection of materials for use in vacuum. These include beams, panels, and deployable appendages or separation devices (to separate from the launch vehicle).

Spacecraft design - Wikipedia

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