Smart structures for aircraft and spacecraft.

AGARD - Smart intelligent aircraft structures

Description: -
-
Older people -- Legal status, laws, etc. -- United States
Psychotherapy
Wit and humor -- Therapeutic use
Election (Theology) -- Sermons
Free will and determinism -- Sermons
God -- Omnipotence -- Sermons
Daśaratha -- Poetry
Smart structuresSmart structures for aircraft and spacecraft.
-
AGARD conference proceedings -- 531Smart structures for aircraft and spacecraft.
Notes: Includes bibliographical references.
This edition was published in 1993

Tags: #Active #monitoring #and #vibration #control #of #smart #structure #aircraft #based #on #FBG #sensors #and #PZT #actuators

5 Spacecraft Structures and Materials

This reduces the number of material parameters, the required experimental tests for parameters identification and also simplifies the mathematical formulation of the developed constitutive equations which is beneficial for numerical formulations. However, faster and more efficient methods are needed. The committee identified four areas that will be essential to the further development and evolution of UAVs.

US3737117A

Although most of the literature mentions that auxetic materials possess superior properties, very few types of auxetic materials have been fabricated and implemented for practical applications.

Structures technology for future aerospace systems

The main applications concern both the military domain new aircraft, space, engines and ships and civilian fields such as aeronautics, motors, energy, health and the building trade. The major challenges involved in many applications of liquid metal alloys have also been discussed thoroughly in this article. Therefore, the hydrogel-based wearable sensor is expected to be used for long-term and continuous monitoring human body motion and detecting physiological parameters.

Techno Press

Discussion focuses on developments in component technologies that will improve the vehicle performance, advance the technology exploitation process, and reduce system life-cycle costs. Here, the challenges and future work on the topic of auxetics are also presented to inspire prospective research work. Structural weight of spacecraft has historically been only about 20 percent of the total dry weight.

Related Books

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