

Gossamer Spacecraft Membrane And Inflatable Structures Technology For Space Applications Progress In Astronautics And Aeronautics

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Description. Description. Written by many experts in the field, this book brings together, in one place, the state of the art of membrane and inflatable structures technology for space applications. With increased pressure to reduce costs associated with design, fabrication, and launch of space structures, there has been a resurgence of interest in membrane structures for extraterrestrial use.

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For example, ultralightweight, flexible, and gossamer space structures are composed of ultrathin membranes and inflatable tubes to be packed tightly for launch, and then expand to large-scale (tens...

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Applications for membrane and inflatable structures in space include lunar and planetary habitats, radio frequency reflectors and wave guides, optical and infrared imaging, solar concentrators for solar power and propulsion, sun shades, solar sails, and many others.

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“gossamer” spacecraft. Revolutionary concepts for large antennas and observatories, solar sails, inflatable solar arrays and concentrators, and inflatable habitats, among others, are being studied [Ref. 1]. These structures characteristically contain large areas of thin-film membranes and can be tens or even hundreds of meters in size.

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to the monograph Gossamer Spacecraft: Membrane/Inflatable Structure Technology for Space Applications [11].) 1.2 History of gossamer aerospace structures There has been interest in inflatable deployable space structures since the 1950s due to their potential for low-cost flight hardware, exceptionally high mechanical packaging efficiency,

~~Chapter 01 Vincent – WIT Press~~

A new model is proposed to accurately predict the wrinkling and collapse loads of a membrane inflated beam. In this model, the pressure effects are considered and a modified factor is introduced to obtain an accurate prediction. The former is achieved by modifying the pressure-related structural parameters based on elastic small strain considerations, and the modified factor is determined by ...

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