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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

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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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“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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This chapter concentrates on solar sails development.

## Astronautics And Aeronautics

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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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