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How Well Do You Know The  
Universe? **Cube on inflatable**

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concept Research Current

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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

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packed tightly for launch,  
and then expand to large-  
scale (tens...  
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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

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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



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shades, solar sails, and many  
others. This chapter  
concentrates on solar sails  
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has been interest in  
inflatable deployable space  
structures since the 1950s  
due to their potential for  
low-cost flight hardware,

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exceptionally high

mechanical packaging  
efficiency,

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accurately predict the

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wrinkling and collapse loads  
of a membrane inflated beam.  
In this model, the pressure  
effects are considered and a  
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introduced to obtain an  
accurate prediction. The  
former is achieved by

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modifying the pressure-  
related structural  
parameters based on elastic  
small strain considerations,  
and the modified factor is  
determined by ...

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