



Gossamer Spacecraft: Membrane and Inflatable Structures Technology for Space Applications (Progress in Astronautics and Aeronautics)

By C. M. Jenkins



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Written by many experts in the field, this book brings together, in one place, the state of the art of membrane and inflatable structure 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. Applications for membrane and inflatable structures in space include lunar and planetary habitats, RF reflectors and waveguides, optical and IR imaging, solar concentrators for solar power and propulsion, sun shades, solar sails and many others.

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Editorial Review

About the Author

Christopher H. M. Jenkins is Director, Materials Engineering and Science Program at the South Dakota School of Mines and Technology. He earned his B.S. degree in Physics from the Florida Institute of Technology and his M.S. and Ph.D. in Mechanical Engineering from Oregon State University. He specializes in computation and experimental mechanics, continuum and solid mechanics, compliant structures, and structural dynamics.

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