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Although heliogyro solar sails have existed in concept for several decades, and previous studies have investigated some aspects of their dynamics and control, a significant amount of research is still needed to characterize the response of the structure under the projected range of orbital conditions.

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Introducing new ideas for solar sail orbits and mission applications, the author puts particular emphasis on solar sail orbital dynamics and includes a rigorous analysis of solar radiation pressure. The engineering design of solar sails is discussed in depth, along with practical mission applications.

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## ~~Solar sail technology—A state of the art review ...~~

This book presents the best contributions of the the Third International Symposium on Solar Sailing Glasgow, 11 - 13 June 2013. It is a rapid snap-shot of the state-of-the art of solar sail technology in 2013 across the globe, capturing flight programs, technology development programs and new technology and application concepts.

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## ~~GyroCube Heliogyro Solar Sail System Development~~

Solar Sail Technology - Many Players NASA developed 80m class solar sail propulsion systems to ~TRL-5/6 in the mid-2000's and will test one in space ~2015 JAXA is flying a 14m solar sail in deep space NASA tested in space the NanoSail-D subscale solar sail prototype The Planetary Society's LightSail-1 will fly this year 28

## ~~Heliogyro Solar Sail Structural Dynamics and Stability ...~~

In this paper, the current state of the art of solar sail technology is reviewed. Solar sail research is quite broad and multi-disciplinary; this paper focuses mainly on areas such as solar sail dynamics, attitude control, design and deployment, and mission and trajectory analysis.

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XXII - 5 where  $m_p$  is the mass of the proton (kg),  $\rho_w$  is the particle density, and  $v$  is the velocity [4]. Near the Earth, a solar wind density of  $6 \times 10^6 \text{ m}^{-3}$  at a velocity of  $4 \times 10^5 \text{ m/s}$  gives a particle pressure of about  $1 \text{ nN/m}^2$ , which is more than three orders of magnitude smaller than the

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equivalent photon pressure [4, 10, 11]. Sail Materials Physical characteristics for several candidate ...

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