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Now we get to my favorite chapters: solar sail orbital dynamics, for both Keplerian and non-Keplerian orbits (both Sun-centered and planet-centered). The whole point of using solar sails is to make good use of a small but constant thrust, so a main application is to "levitate" the orbit above the Sun or above a planet.

Solar Sailing: Technology, Dynamics and Mission ...

Solar sailing offers the possibility of low-cost long-distance missions, impossible for any other type of conventional spacecraft. The book

provides a detailed account of solar sailing, at a high technical level but in a way accessible to the scientifically informed layman. Solar sail orbital dynamics and solar radiation pressure form the foundations of the book, but the engineering design of solar sails is also considered, along with potential mission applications.

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[PDF] Solar Sailing: Technology, Dynamics and Mission ...

This first comprehensive book on this propulsion method provides a detailed account of solar sailing, at a high technical level, but in a way accessible to the scientifically informed layperson....

Solar Sailing: Technology, Dynamics and Mission ...

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.

Solar sailing. Technology, dynamics and mission ...

Y1 - 2004. N2 - Solar sailing offers the possibility of low-cost long-distance missions, impossible for any other type of conventional spacecraft. The book provides a detailed account of solar sailing, at a high technical level but in a way accessible to the scientifically informed layman. Solar sail orbital dynamics and solar radiation pressure form the foundations of the book, but the engineering design of solar sails is also considered, along with potential mission applications.

Solar Sailing: Technology, Dynamics and Mission ...

Abstract. This paper reviews solar sail trajectory design and dynamics, attitude control, and structural dynamics. Within the area of orbital dynamics, methods relevant to transfer trajectory design and non-Keplerian orbit generation are discussed. Within the area of attitude control, different control strategies, including utilisation of solar radiation pressure and conventional actuators, are discussed.

[Review on solar sail technology | SpringerLink](#)

Now we get to my favorite chapters: solar sail orbital dynamics, for both Keplerian and non-Keplerian orbits (both Sun-centered and planet-centered). The whole point of using solar sails is to make good use of a small but constant thrust, so a main application is to "levitate" the orbit above the Sun or above a planet. McInnes examines the characteristics, controllability, and stability of some of these orbits. And he then obtains results for orbits near Lagrange points (both planetary and ...

[Amazon.com: Customer reviews: Solar Sailing: Technology ...](#)

Solar sails (also call sails) are a method of spacecraft propulsion using radiation pressure exerted by sunlight on large mirrors. A number of spaceflight missions to test solar propulsion and navigation have been proposed since the 1980s. The first spacecraft to make use of the technology was IKAROS, launched in 2010.

[Solar sail - Wikipedia](#)

Solar sail orbital dynamics and solar radiation pressure form the foundations of the book, but the engineering design of solar sails is also considered, along with potential mission applications.

[Solar Sailing: Technology, Dynamics and Mission ...](#)

2 SOLAR SAILS AND THE 3-BODY PROBLEM is a vector in the direction normal to the orbital plane. This work will consider the dynamics of a solar sail under the gravitational effects of both the Sun and the asteroid. These two larger bodies constitute the primaries of the Restricted 3-Body Problem (R3BP).

[Dynamics of a solar sail around an asteroid](#)

Colin Robert McInnes MBE FRSE FInstP FREng is a Scottish engineer known for his work in solar sails. He is currently one of the leading figures in the field, being the author (or co-author) of over 50 solar sail papers since 2001. He also wrote a book on the subject, Solar Sailing: Technology, Dynamics and Mission Applications, which is commonly referenced in solar sail journal papers.

[Colin R. McInnes - Wikipedia](#)

The Gibson Solar project is one of 19 projects that Capital Dynamics acquired from Tenaska in November 2018 and April 2019, and is located on approximately 2,400 acres in southern Indiana. The project is currently in the development stage with construction expected to start in 2022, and commercial operation anticipated in 2023.

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