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Keplerian orbits (both

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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.

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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

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the book, but the engineering design of solar sails is also considered, along with potential mission applications.

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Now we get to my favorite chapters: solar sail orbital dynamics, for both Keplerian and non-Keplerian orbits (both

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obtains results for orbits  
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mission applications, the  
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orbital dynamics and  
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but in a way accessible to  
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informed layman. Solar  
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solar radiation pressure  
form the foundations of  
the book, but the

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engineering design of solar sails is also considered, along with potential mission applications.

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Abstract. This paper reviews solar sail trajectory design and dynamics, attitude control, and structural

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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.

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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

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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

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IKAROS, launched in  
2010.

[Solar sail - Wikipedia](#)

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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

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two larger bodies  
constitute the primaries  
of the Restricted 3-Body  
Problem (R3BP).

## Mission

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

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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](#)

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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

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