

THE HISTORY OF SOLAR SAILING

1608

Johannes Kepler theorizes that sails and ships could be "adapted to the heavenly breezes."

1964

Arthur C. Clarke publishes *The Sunjammer*, a solar sail science fiction story.

1975

NASA designs a solar sail spacecraft to possibly visit Halley's Comet.

1976

Carl Sagan shows a model of the Halley solar sail on *The Tonight Show*.

1980

The Planetary Society is founded.

1999

The Planetary Society begins work on *Cosmos 1*, a privately funded solar sail spacecraft.

2009*

The Planetary Society begins development of *LightSail*.

2005

Cosmos 1 launches on a Russian *Volna* rocket. The rocket fails to reach orbit.

2015

LightSail 1 launches aboard an Atlas V rocket and successfully completes its mission.

2010

JAXA successfully launches *IKAROS*, the world's first solar sail spacecraft.

2019

LightSail 2 launches with *Prox-1* aboard a SpaceX Falcon Heavy rocket.



Solar Sailing

**Giovanni Vulpetti, Les Johnson, Gregory
Matloff**



Solar Sailing:

Solar Sailing Colin R. McInnes, 2004-02-20 Solar sailing using the sun as a propellant offers the possibility of low cost long distance missions that are impossible with conventional spacecraft 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 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 Colin R. McInnes, 2013-11-27 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 This book introduces the subject and at the same time provides a technical reference source

Solar Sails Giovanni Vulpatti, Les Johnson, Gregory L. Matloff, 2014-11-05 The reality of sunlight based sailing in space began in May 2010 and solar sail technology and science have continued to evolve rapidly through new space missions Using the power of the Sun's light for regular travel propulsion will be the next major leap forward in our journey to other worlds This book is the second edition of the fascinating explanation of solar sails how they work and how they will be used in the exploration of space Updated with 35% new material this second edition includes three new chapters on missions operated by Japan and the US as well as projects that are in progress The remainder of the book describes the heritage of exploration in water borne sailing ships and the evolution to space vehicle propulsion as well as nuclear solar electric nuclear electric and antimatter rocket devices It also discusses various sail systems that may use either sunlight or solar wind and the design fabrication and steering challenges associated with solar sails The first edition was met with overwhelmingly positive reviews and deemed a title that needs to be on your shelf if you're seriously interested in the next step as we move beyond rocketry Centauri Dreams September 2008 Written with a mixed approach this book appeals to both the general public as well as those with a more scientifically technical background

Solar Sailing for Deep-Space Explorations Chen Gao, Wei Wang, 2025-11-02 This book focuses on the solar sailing technique and investigates in detail its applications for deep space explorations focusing on the Earth Moon Sun Earth and Sun planet systems Solar sailing is an advanced and propellant free form of low thrust propulsion and therefore a perfect option for energy demanding and long duration space missions This book covers the topics on non Keplerian orbit designs low thrust station keeping and spacecraft formation flying using solar sailing from in particular the perspectives of dynamics and control Given its breadth of coverage the book offers a valuable reference guide for researchers and engineers who are interested in the solar sailing technique and in particular its dynamics and control in deep space exploration missions

Advances in Solar Sailing Malcolm Macdonald, 2014-02-03 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 The book contains contributions from all of the leading figures in the field including NASA JAXA ESA DLR as well as university and industry experts It therefore provides a unique reference point for the solar sail technology The book also includes key contributions from the prospective users of solar sail technology which will allow the technology to be considered by the user in this unique context Solar Sails Giovanni Vulpetti, Les Johnson, Gregory Matloff, 2008-07-31 Solar sail technology is very close to becoming an engineering reality and it will soon be used in the exploration of the solar system and beyond This fascinating book provides an accessible introduction to solar sails and details how they work and what they will be used for in the exploration of space It also examines current plans for solar sails and how advanced technology such as nanotechnology might enhance their performance Coverage shows how solar sail propulsion will make space exploration more affordable and demonstrates how access to destinations within and beyond the solar system will become within reach *Solar Sailing* Colin Robert McInnes, 2005 Since the first edition of this text was published in 1999 and recognised as the definitive reference work on solar sailing the field has moved on considerably Therefore in this timely second edition Colin McInnes presents in this comprehensive technical reference on the subject major revisions and an enlarged chapter on mission applications based on work performed by the author under contract to the European Space Agency between 1999 and 2003 The text assesses the benefits of solar sailing and comes to the inescapable conclusion that it offers a diverse range of low cost mission opportunities many of which are impossible for any other type of conventional spacecraft Introducing new ideas for solar sail orbits and mission applications since 1999 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 *Starsailing* Louis Friedman, 1988-01-18 Louis Friedman Executive Director of the Planetary Society presents the first comprehensive look at the science and history behind solar sailing and other designs for space travel Serious science readers and space buffs alike will be fascinated by designs for the square sail disk sail and the heliogyro which features flexible sails many kilometers long Friedman compares solar sailing to other proposed propulsion systems such as ion drives and laser propulsion and takes an insider's look at the million dollar JPL project of the late 70s which was the first attempt at a working model Illustrated Fast Solar Sailing Giovanni Vulpetti, 2012-08-10 The range of solar sailing is very vast it is a fully in space means of propulsion that should allow us to accomplish various mission classes that are literally impossible using rocket propulsion no matter if nuclear or electric Fast and very fast solar sailings are special classes of sailcraft missions initially developed only in the first half of the 1990s and still evolving especially after the latest advances in nanotechnology This book describes how to plan compute and optimize the trajectories of sailcraft with speeds considerably higher than 100 km/s such sailcraft would be

able to explore the outer heliosphere the near interstellar medium and the solar gravitational lens 550 800 astronomical units in times significantly shorter than the span of an average career 35 years just to cite a few examples The scientific interest in this type of exploration is huge *Solar Sailing* Theodore P. Cotter,1959 **Solar Sails** Holly Duhig,2017-12-15 Solar sails use the sun s energy to fly spacecraft or flight by light It sounds like something out of a science fiction novel In fact it is first being mentioned in Jules Verne s *From Earth to the Moon* in 1865 It s been used as a way for characters to travel through space in many other books and movies including *Tron* in 1985 Today solar sails are a reality and readers learn how their technology works as well as how successful trials with solar sail apparatuses have been Could light energy be the best way to move through space in the future Readers find out for themselves *Guidance of a Solar Sail Spacecraft to the Sun-earth L2 Point* Stanford University. Department of Aeronautics and Astronautics,Sun Hae Hur,1994 Solar Engineering American Society of Mechanical Engineers. Solar Energy Division. Conference,2003 **The Solar Boat Book** Pat Rand Rose,1983 Provides plans and suggestions for heating water heating or cooling a boat producing fresh water from salt water and generating shipboard electricity with solar energy Solar Sailing Is Not Science Fiction Anymore Dean C. Alhorn,Nasa Technical Reports Server (Ntrs),2013-06 Over 400 years ago Johannes Kepler envisioned the use of sunlight to propel a spacecraft Just this year a solar sail was deployed in orbit for the first time and proved that a spacecraft could effectively use a solar sail for propulsion NASA s first nano class solar sail satellite NanoSail D was designed and developed in only four months Although the first unit was lost during the Falcon 1 rocket failure in 2008 the second flight unit has been refurbished and is waiting to be launched later this year NanoSail D will further the research into solar sail enabled spacecraft It will be the first of several more sail enabled spacecraft to be launch in the next few years FeatherSail is the next generation nano class sail spacecraft being designed with the goal to prove low earth orbit operational capabilities Future solar sail spacecraft will require novel ideas and innovative research for the continued development of space systems One such pioneering idea is the Small Multipurpose Advanced Reconfigurable Technology SMART project The SMART technology has the potential to revolutionize spacecraft avionics Even though solar sailing is currently in its infancy the next decade will provide great opportunities for research into sailing in outer space *Solar Sail Mission Design* Manfred Leipold,2000 ,2004

Space Vehicle Dynamics and Control Bong Wie,2008 *Space Vehicle Dynamics and Control* Second Edition continues to provide a solid foundation in dynamic modeling analysis and control of space vehicles featuring detailed sections covering the fundamentals of controlling orbital attitude and structural motions of space vehicles A new Part 5 is a collection of advanced spacecraft control problems and their practical solutions obtained by applying the fundamental principles and techniques emphasized throughout the book **Journal of the British Interplanetary Society** ,2006 *Project Solar Sail* David Brin,Arthur C. Clarke,2024-05-28 *SAILING THE SEA OF OUTER SPACE* Arthur C Clarke s Sunjammer updated an ancient dream taking millions of readers on a sailing regatta in space His stirring tale sparked a tech revolution that s

coming true today interplanetary vehicles navigating across the Solar System on inexhaustible torrents of sunlight Many others have since explored the coming renewed age of sail This intriguing anthology updated for a new century features both up to the minute facts and future visions of solar sailing in a fascinating mix of stories essays and illustrations Contributors range from JPL scientists to Isaac Asimov Poul Anderson Kevin Anderson and Ray Bradbury From classics by Arthur C Clarke David Brin Joe Clifford Faust and Larry Niven to the latest missions by NASA and the Planetary Society Even interstellar possibilities explored by Robert L Forward Joel Davis are now carried even farther in reports by space pioneers like Les Johnson Robert Staehle Louis Friedman This 21st Century Edition specially crafted by David Brin and Stephen W Potts also includes a lost gem by Jack Vance

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