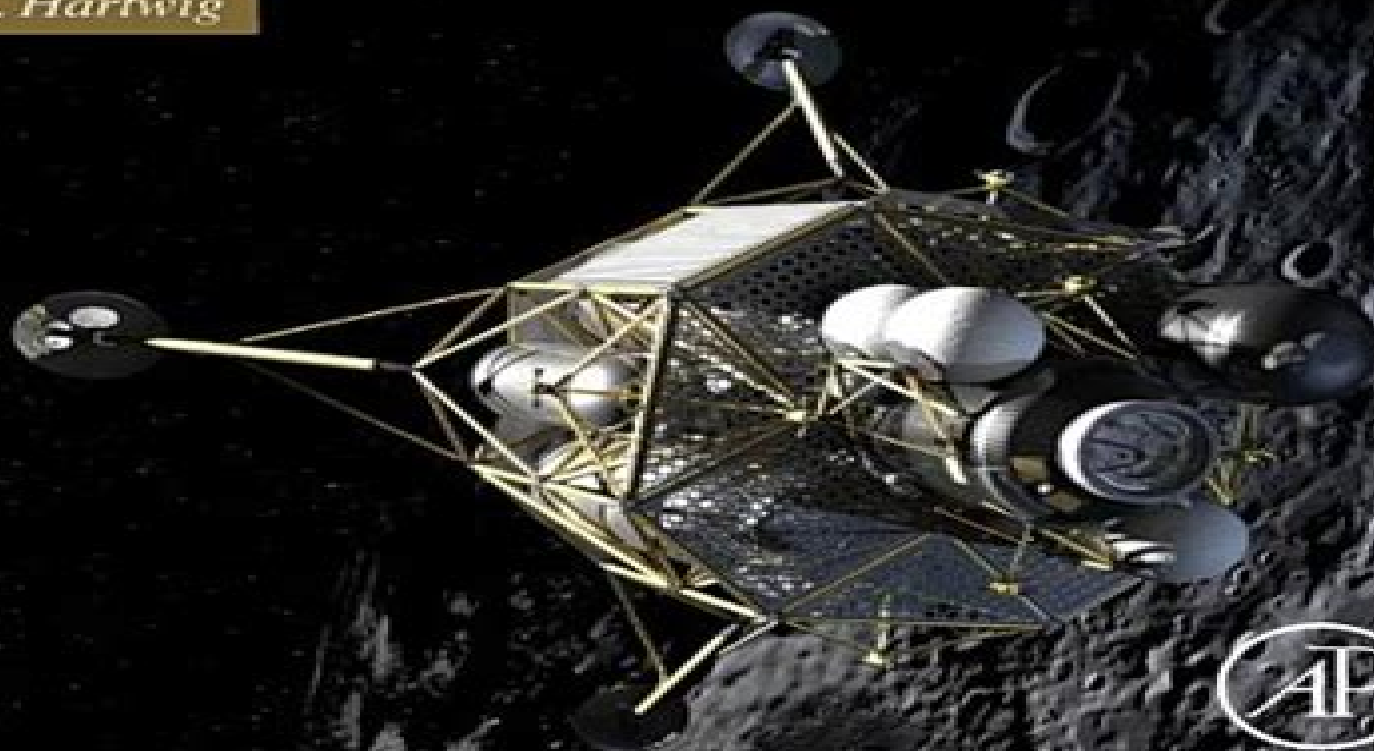


Liquid Acquisition Devices for Advanced In-Space Cryogenic Propulsion Systems

Jason W. Hartwig



Liquid Acquisition Devices For Advanced In Space Cryogenic Propulsion Systems

Marco Cascella



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Liquid Acquisition Devices for Advanced In-Space Cryogenic Propulsion Systems Jason William Hartwig, 2015-11-21
Liquid Acquisition Devices for Advanced In Space Cryogenic Propulsion Systems discusses the importance of reliable cryogenic systems a pivotal part of everything from engine propulsion to fuel deposits As some of the most efficient systems involve advanced cryogenic fluid management systems that present challenging issues the book tackles issues such as the difficulty in obtaining data the lack of quality data and models and the complexity in trying to model these systems The book presents models and experimental data based on rare and hard to obtain cryogenic data Through clear descriptions of practical data and models readers will explore the development of robust and flexible liquid acquisition devices LAD through component level and full scale ground experiments as well as analytical tools This book presents new and rare experimental data as well as analytical models in a fundamental area to the aerospace and space flight communities With this data the reader can consider new and improved ways to design analyze and build expensive flight systems Presents a definitive reference for design ideas analysis tools and performance data on cryogenic liquid acquisition devices Provides historical perspectives to present fundamental design models and performance data which are applied to two practical examples throughout the book Describes a series of models to optimize liquid acquisition device performance which are confirmed through a variety of parametric component level tests Includes video clips of experiments on a companion website

Proceedings of the 28th International Cryogenic Engineering Conference and International Cryogenic Materials Conference 2022 Limin Qiu, Kai Wang, Yanwei Ma, 2023-10-05 This book gathers selected papers from the 28th International Cryogenic Engineering Conference and International Cryogenic Materials Conference 2022 ICEC28 ICMC 2022 held virtually in Hangzhou China on 25-29 April 2022 due to COVID-19 pandemic Highlighting the latest findings on cryogenic engineering and cryogenic materials it covers topics including large scale cryogenic components processes and systems for refrigeration separation and liquefaction of cryogenic fluids small scale cryocoolers cryogenic space applications thermal insulation thermal physical properties of cryogenic fluids and materials superconducting materials devices systems and applications etc The book offers valuable information and insights for academic researchers engineers in the industry and operators in the cryogenic field

Recent Asian Research on Thermal and Fluid Sciences Abhilash Suryan, Deog Hee Doh, Minoru Yaga, Guang Zhang, 2020-02-18 This book presents a collection of the best papers from the Seventh Asian Joint Workshop on Thermophysics and Fluid Science AJWTF7 2018 which was held in Trivandrum India in November 2018 The papers highlight research outputs from India China Japan Korea and Bangladesh and many of them report on collaborative efforts by researchers from these countries The topics covered include Aero Acoustics Aerodynamics Aerospace Engineering Bio Fluidics Combustion Flow Measurement Control and Instrumentation Fluid Dynamics Heat and Mass Transfer Thermodynamics Mixing and Chemically Reacting Flows Multiphase Flows Micro Nano Flows Noise NOx SOx Reduction

Propulsion Transonic and Supersonic Flows and Turbomachinery The book is one of the first on the topic to gather contributions from some of the leading countries in Asia Given its scope it will benefit researchers and students working on research problems in the thermal and fluid sciences

Experimental and Theoretical Investigations of the Physical Processes Related to the Retention Capability of a Double Screen Element against Liquid Hydrogen in Earth's Gravity and in Microgravity with Respect to the Applied Stimuli André Pingel, 2022-08-04 Metal screens are commonly used as components for fluid handling in spacecraft and rocket tank designs In most cases the screens perform a passive separation of the propellant phases The separation of the liquid from the gaseous propellant phase is a special challenge Liquid gas phase separation means that the gaseous phase is allowed to enter a phase separation device while the liquid phase is blocked The technical application of this process is the depressurization in a propellant tank A certain amount of the gaseous propellant phase is vented from the tank through the gas port The liquid propellant phase remains in the tank in order to be stored for the engine However if the tank causes a liquid movement during the depressurization a part of the liquid can potentially enter the gas port In order to prevent the unwanted liquid outflow a separation of the liquid from the gas is necessary This is possible with the aid of a double screen element and has already been performed for storable liquids in Earth's gravity and microgravity as well as for cryogenic liquids in Earth's gravity At the current state of the art the separation of the liquid from the gaseous phase of the cryogenic propellant hydrogen using a double screen element has not been performed in microgravity However with regard to a possible application it is mandatory to investigate the function of the double screen element for the real propellant under relevant environmental conditions In this work a cryogenic test facility has been developed and operated successfully under Earth's gravity and microgravity conditions using the drop tower at the University of Bremen Hereby the original cryogenic propellant phases liquid and gaseous hydrogen have been used The experiments show the appearance of the physical processes which are related to the retention capability of a double screen element against liquid hydrogen Furthermore these physical processes can obviously be influenced by an unknown boundary condition at the screens the screen saturation This unknown boundary condition in turn can obviously be influenced by a certain stimulus which causes a special fluid mechanical process A simplified mathematical and two numerical models have been developed which combine the observed physical processes in the experiments Two fitting parameters are introduced which influence the flow through screen pressure loss of the liquid and the gaseous hydrogen phase After the fitting to experimental data the two fitting parameters have been interpreted with respect to a possible screen saturation The results lead to a prediction of the unknown boundary condition and indicate that a partial saturation of the screens with liquid could be present in each considered experiment This can possibly lead to a major influence of the overall resistance of the double screen element against liquid hydrogen

Technology for Large Space Systems, 1989

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Government Publications United States. Superintendent of Documents, 1991 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index Monthly Catalogue, United States Public Documents ,1991

Intelligent Equipment and Special Robots Qiang Zhang, 2024-05-15 Developments in AI are occurring rapidly with new applications constantly on the increase and one of the areas in which interesting developments are always taking place is that of intelligent equipment and special robots This book presents papers from ICIESR 2023 the 2nd International Conference on Intelligent Equipment and Special Robots held from 20 to 22 October 2023 in Qingdao China The conference series has established a platform for experts researchers and students working in related fields to present exchange and discuss the latest advances and developments linking various branches of science and technology It promotes innovation in and the application of intelligent equipment and special robots and fosters the development of related industries and this year's conference brought together 180 participants A total of 206 submissions was received for the conference of which 185 were selected for peer review in the course of which they were evaluated for theme structure method content language and format Of these 80 papers were accepted for presentation and publication resulting in an acceptance rate of 39% Topics covered include intelligent detection technology smart manufacturing artificial intelligence mechatronics technology and creative and entertaining robots among others Providing a current overview of recent developments in the field the book will be of interest to all those whose work relates to intelligent equipment and special robots **Scientific and Technical**

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Liquid Acquisition Devices For Advanced In Space Cryogenic Propulsion Systems: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Liquid Acquisition Devices For Advanced In Space Cryogenic Propulsion Systems : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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