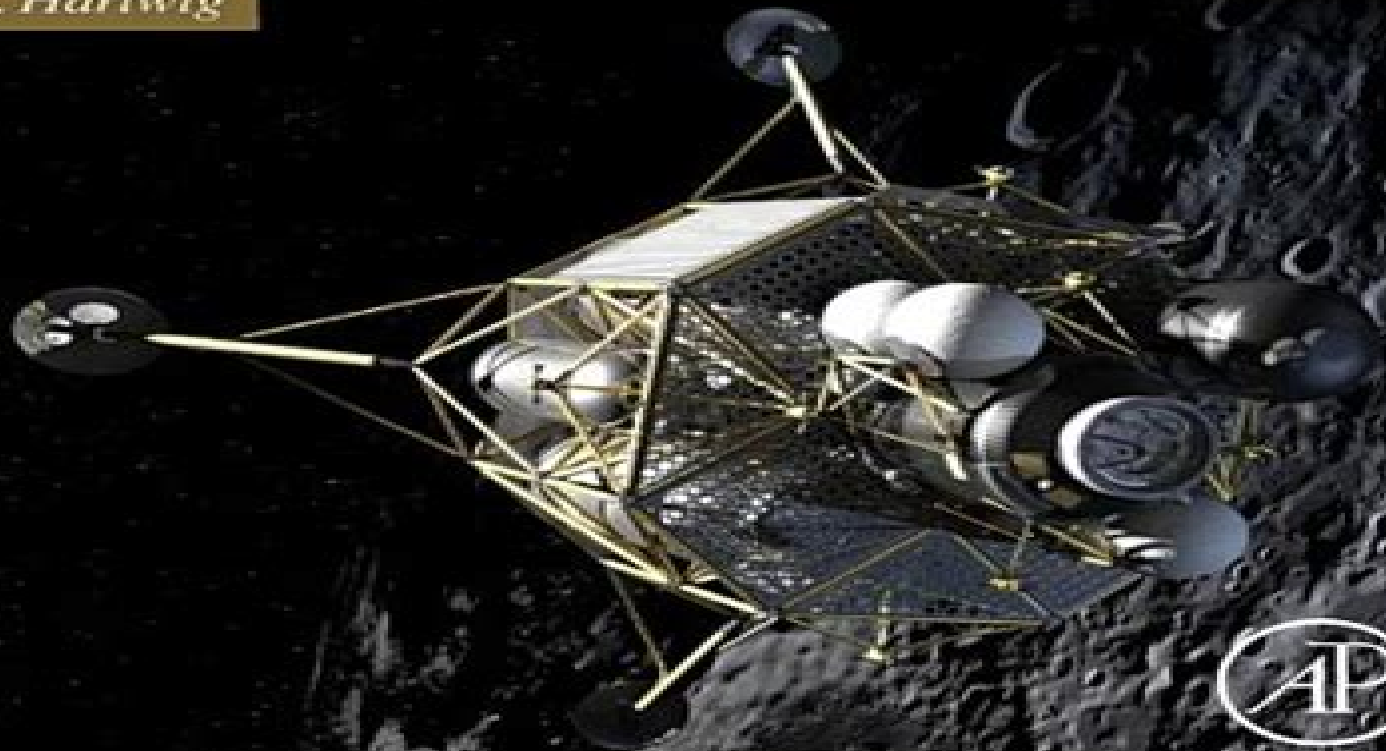


# Liquid Acquisition Devices for Advanced In-Space Cryogenic Propulsion Systems

*Jason W. Hartwig*



# Liquid Acquisition Devices For Advanced In Space Cryogenic Propulsion Systems

**RS Peters**



## **Liquid Acquisition Devices For Advanced In Space Cryogenic Propulsion Systems:**

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 **Monthly Catalog of United States Government Publications**, 1991 **Monthly Catalog of United States 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 Aerospace Reports, 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **NASA Technical Memorandum**, 1982 *1981 NASA Authorization* United States. Congress. House. Committee on Science and Technology. Subcommittee on Space Science and Applications, 1980 Technology for the Future: In-Space Technology Experiments Program, Part 2, 1991 **Technology for Large Space Systems: A Bibliography with Indexes (supplement 20)** United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1989 **Large Space Structures & Systems in the Space Station Era**, 1991 **AIAA Space Programs and Technologies Conference and Exhibit: 93-4201 - 93-4259**, 1993 **The Michigan Technic**, 1964 **Resident Research Associateships, Postdoctoral and Senior Research Awards** National Research Council (U.S.), 1997 Research and Technology Program Digest United States. National Aeronautics and Space Administration, **Career Opportunities in Engineering and Science**, 1991

## Embracing the Track of Phrase: An Psychological Symphony within **Liquid Acquisition Devices For Advanced In Space Cryogenic Propulsion Systems**

In some sort of consumed by displays and the ceaseless chatter of instant connection, the melodic splendor and emotional symphony created by the published word often disappear into the backdrop, eclipsed by the constant sound and interruptions that permeate our lives. Nevertheless, situated within the pages of **Liquid Acquisition Devices For Advanced In Space Cryogenic Propulsion Systems** a charming literary treasure overflowing with raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, that interesting masterpiece conducts readers on a psychological journey, skillfully unraveling the hidden melodies and profound impact resonating within each carefully crafted phrase. Within the depths with this emotional examination, we will investigate the book is central harmonies, analyze its enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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