

Spacecraft Thermal Control Handbook

Volume II: Cryogenics

Martin Donabedian
Editor



Spacecraft Thermal Control Handbook Cryogenics

**Andreas Züttel, Andreas
Borgschulte, Louis Schlapbach**



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Spacecraft Thermal Control Handbook: Cryogenics David G. Gilmore, 2002 The number of satellite systems that require some form of cryogenic cooling has grown enormously over the last several years With so many engineers scientists and technicians working on cryogenic systems for the first time in their careers the need for a single resource that touched on all the technologies relevant to cryogenics was apparent **Spacecraft Thermal Control Handbook** David G. Gilmore, Martin Donabedian, 2002 Annotation This is a revised and updated of 1994 and has been expanded to discuss interplanetary spacecraft as well as Earth orbiting satellites The work is presented as a compendium of corporate knowledge in the field of thermal control of uncrewed spacecraft and was written for thermal engineers of a range of experience levels After discussing general issues and historical design approaches chapters examine current thermal control hardware the thermal design and testing process and emerging thermal technologies Annotation c Book News Inc Portland OR booknews com

Spacecraft Thermal Control Handbook, 2003 **Spacecraft Thermal Control** J Meseguer, I Pérez-Grande, A Sanz-Andrés, 2012-08-06 Thermal control systems are an essential element of spacecraft design ensuring that all parts of the spacecraft remain within acceptable temperature ranges at all times Spacecraft thermal control describes the fundamentals of thermal control design and reviews current thermal control technologies The book begins with an overview of space missions and a description of the space environment followed by coverage of the heat transfer processes relevant to the field In the third part of the book current thermal control technologies are described and in the final part design analysis and testing techniques are reviewed Provides background on the fundamentals of heat transfer which gives the reader a better understanding of the phenomenon and the way Space Thermal Control Systems work Merges the experience of the authors in teaching aerospace engineering topics with the experience as compilers of the Spacecraft Thermal Control Design Data Handbook of the European Space Agency and the development of in orbit thermal control systems for Spanish and ESA Missions The engineering approach is enhanced with a full section on Thermal Control Design Analysis and Testing

Introduction to Spacecraft Thermal Design Eric A. Silk, 2020-07-09 Develop a fundamental understanding of heat transfer analysis techniques as applied to earth based spacecraft with this practical guide Written in a tutorial style this essential text provides a how to manual tailored for those who wish to understand and develop spacecraft thermal analyses Providing an overview of basic heat transfer analysis fundamentals such as thermal circuits limiting resistance MLI environmental thermal sources and sinks as well as contemporary space based thermal technologies and the distinctions between design considerations inherent to room temperature and cryogenic temperature applications this is the perfect tool for graduate students professionals and academic researchers **Low Temperature Materials and Mechanisms** Yoseph Bar-Cohen, 2016-08-19 This book addresses the growing interest in low temperature technologies Since the subject of low temperature materials and mechanisms is multidisciplinary the chapters reflect the broadest possible perspective of the field

Leading experts in the specific subject area address the various related science and engineering chemistry material science electrical engineering mechanical engineering metallurgy and physics *Aircraft Cryogenics* Ernst Wolfgang Stautner, Kiruba S. Haran, Phillip J. Ansell, Constantinos Minas, 2024-10-25 This book gives a step by step approach to the design of a cryogenic infrastructure required for superconducting all electric aircraft systems which is also partially applicable to liquid hydrogen fueled subsonic and hypersonic aircraft as well as hybrids While there is no shortage of publications on hydrogen fueled aircraft this book puts the past journal literature through a magnifying glass and condenses it into an engineering strategy for the next steps to enable liquid hydrogen storage and distribution in aircraft Emphasis is placed on tank design manufacturability safety features and minimum tank weight providing a holistic focus on the logistics of hydrogen management for all major components within the aircraft as well as on future superconducting motor architecture The intention is to fully exploit the benefits of a liquid hydrogen reservoir without any need for additional cryogenic fluids with relevance to cooling of various superconducting components e g motors and superconducting cables as well as the heat sinking of power electronics and for fueling the fuel cell stack system A liquid hydrogen tank hold time analysis reveals the main governing factors and describes the required efforts for minimizing onboard boil off for aircraft designs with different flight mission duration This is followed by an outlook showing where cryotankage technology and cryogenic aircraft architecture may move within the next 20 years embedded in a green hydrogen based economy and how basic research will need to play a major role to help us realizing these future designs by consequently eliminating whitespace within today s technology landscape This book is also an aircraft engineering resource on composites hydrogen properties general aircraft materials and safety **Cryogenic Microelectronic Systems for Ultra-Low Energy and Enhanced Performance** Nurzhan Zhuldassov, Eby G. Friedman, 2025-09-18 This book explores cryogenic computers to achieve faster operation and lower energy use As computer components become smaller and generate more heat traditional cooling methods struggle to keep up By operating at cryogenic temperatures these limitations can be overcome reducing heat improving performance and opening new possibilities for important applications such as large scale data centers and quantum computers The approaches and physical models discussed in this book are valuable since these concepts offer a practical methodology for increasing computational computing power without being limited by heat and power dissipation The book explores how cryogenic temperatures can supercharge computing Novel methods for designing and optimizing computer systems that operate at extremely low temperatures improve performance reduce power consumption and tackle the fundamental physical limits faced by modern electronics are introduced in this book From foundational physics based principles and cryogenic equipment to innovative graph theoretic design the book offers a fresh look at the future of high performance energy efficient computing **Miniature Joule-Thomson Cryocooling** Ben-Zion Maytal, John M. Pfotenhauer, 2012-09-18 This book is the first in English being entirely dedicated to Miniature Joule Thomson Cryocooling

The category of Joule Thomson JT cryocoolers takes us back to the roots of cryogenics in 1895 with figures like Linde and Hampson. The cold finger of these cryocoolers is compact, lacks moving parts and sustains a large heat flux extraction at a steady temperature. Potentially they cool down unbeatably fast. For example, cooling to below 100 K minus 173 Celsius might be accomplished within only a few seconds by liquefying argon. A level of about 120 K can be reached almost instantly with krypton. Indeed, the species of coolant plays a central role dictating the size, the intensity and the level of cryocooling. It is the JT effect that drives these cryocoolers and reflects the deviation of the real gas from the ideal gas properties. The nine chapters of the book are arranged in five parts: The Common Principle of Cryocoolers shared across the broad variety of cryocooler types; Theoretical Aspects: the JT effect and its inversion, cooling potential of coolants, the liquefaction process, sizing of heat exchangers, level of pressurization, discharge of pressure vessels; Practical Aspects: modes of operation, fast cooldown, continuous multi staging, hybrid cryocoolers, pressure sources, configuration, construction and technologies, flow adjustment, MEMS, open and closed cycle, cooldown process and similarity, transient behavior; Mixed Coolant cryocooling: theory, practice and applications; Special Topics: real gas choked flow rates, gas purity, clog formation, optimal fixed orifice, modeling, cryosurgical devices, warming by the inverse JT effect. The theoretical aspects may be of interest not only to those working with cryocoolers but also for others with a general interest in real gas thermodynamics, such as for example the inversion of the JT effect in its differential and integral forms and the exceptional behavior of the quantum gases. A detailed list of references for each chapter comprises a broad literature survey. It consists of more than 1 200 relevant publications and 450 related patents. The systematically organized content arranged under a thorough hierarchy of headings supported by 227 figures and 41 tables and accompanied by various chronological notes of evolution enables readers a friendly interaction with the book. Dr Ben Zion Maytal is a Senior Researcher at Rafael Advanced Defense Systems Ltd and an Adjunct Senior Teaching Fellow at the Technion Israel Institute of Technology Haifa, Israel. Prof John M Pfotenhauer holds a joint appointment in the Departments of Mechanical Engineering and Engineering Physics at the University of Wisconsin Madison.

Hydrogen as a Future Energy Carrier, Andreas Züttel, Andreas Borgschulte, Louis Schlapbach, 2011-09-22. This book fills the gap for concise but comprehensive literature on this interdisciplinary topic involving chemical, physical, biological and engineering challenges. It provides broad coverage of the most important fields of modern hydrogen technology: hydrogen properties, production, storage, conversion to power and applications in materials science. In so doing, the book covers all the pertinent materials classes: metal hydrides, inorganic porous solids, organic materials and nanotubes. The authors present the entire view from fundamental research to viable devices and systems, including the latest scientific results and discoveries, practical approaches to design and engineering as well as functioning prototypes and advanced systems.

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