



The Space Environment

**National Aeronautics and Space
Administration (NASA)**



The Space Environment:

Introduction to the Space Environment Thomas F. Tascione, 1988 A text for senior or first year graduate students with a solid background in introductory physics simplifying the mathematics but not the underlying concepts Explains the basic physical processes that control the space environment Revised and updated from the 1988 edition to account for new scientific discoveries Annotation copyright by Book News Inc Portland OR *The Space Environment* Alan C. Tribble, 2003-10-12 Through offering insight into the nature of the space environment and how spacecraft interact with it Alan Tribble presents a singular up to date account of the environmental effects that can damage or cause poor performance of orbiting spacecraft

The Space Environment and Its Effects on Space Systems Vincent L. Pisacane, 2008 This textbook will help students and professionals understand the space environment and its impacts on spacecraft design engineering and performance While the primary emphasis of the book is the Earth s environment and its effects on spacecraft it also addresses the extraterrestrial environment and the effects of radiation on humans in space The book begins with an introduction to the history of spacecraft failures risk management reliability and quality assurance techniques and parts reliability It goes on to provide an overview of the structure of the Sun the structure origin and models of the geomagnetic field gravitational field of the Earth Earth s magnetosphere and radiation environment neutral environment including fundamentals of the kinetic theory of gases variation of pressure with altitude and hypoxia of humans electromagnetic propagation the effect of atomic oxygen on materials plasma surrounding the Earth transport and effects of photon and charged particle radiation on electronics and tissue spacecraft contamination techniques to mitigate debris impact and heat transfer and thermal control of spacecraft An appendix provides important astrodynamics constants and parameters of the celestial bodies in the solar system Problem sets and examples are included and a solution manual is available for instructors

The Space Environment Alan C. Tribble, 2020-05-05 The breakup of the Space Shuttle Columbia as it reentered Earth s atmosphere on February 1 2003 reminded the public and NASA of the grave risks posed to spacecraft by everything from insulating foam to space debris Here Alan Tribble presents a singular up to date account of a wide range of less conspicuous but no less consequential environmental effects that can damage or cause poor performance of orbiting spacecraft Conveying a wealth of insight into the nature of the space environment and how spacecraft interact with it he covers design modifications aimed at eliminating or reducing such environmental effects as solar absorptance increases caused by self contamination materials erosion by atomic oxygen electrical discharges due to spacecraft charging degradation of electrical circuits by radiation and bombardment by micrometeorites This book is unique in that it bridges the gap between studies of the space environment as performed by space physicists and spacecraft design engineering as practiced by aerospace engineers

The Behavior of Systems in the Space Environment R.N. Dewitt, Dwight Duston, Anthony K. Hyder, 2012-12-06 A NATO Advanced Study Institute ASI on the Behavior of Systems in the Space

Environment was held at the Atholl Palace Hotel Pitlochry Perthshire Scotland from July 7 through July 19 1991 This publication is the Proceedings of the Institute The NATO Advanced Study Institute Program of the NATO Science Committee is a unique and valuable forum under whose auspices almost one thousand international tutorial meetings have been held since the inception of the program in 1959 The ASI is intended to be primarily a high level teaching activity at which a carefully defined subject is presented in a systematic and coherently structured program The subject is treated in considerable depth by lecturers eminent in their field and of international standing The subject is presented to other scientists who either will already have specialized in the field or possess an advanced general background The ASI is aimed at approximately the post doctoral level This ASI emphasized the basic physics of the space environment and the engineering aspects of the environment s interactions with spacecraft

Protection of Materials and Structures from the Space Environment Jacob Kleiman,2017-05-16 The proceedings published in this book document and foster the goals of the 11th International Space Conference on Protection of Materials and Structures from Space Environment ICPMSE 11 to facilitate exchanges between members of the various engineering and science disciplines involved in the development of space materials Contributions cover aspects of interaction with space environment of LEO GEO Deep Space Planetary environments ground based qualification and in flight experiments as well as lessons learned from operational vehicles that are closely interrelated to disciplines of atmospheric sciences solar terrestrial interactions and space life sciences

Surface Welding in the Space Environment Robert Melvin Evans,R. E. Monroe,1966 In this memorandum the available reports in DMIC which are concerned with welding of metal surfaces in space environments whether this welding is desirable or undesirable are reviewed The phenomenon of surface welding in the space environment is of interest to many for various reasons Some hope to use the phenomenon for the completion of attachment joints or repairs to spacecraft Some are concerned because of the possible malfunction of moving components such as bearings valves and electrical contacts However no effort has been made to correlate and analyze the data that are presented A section on fundamental studies also is included along with an annotated bibliography which covers references dealing primarily with lubricants lubrication coatings and test equipment

The Atmosphere as Part of the Space Environment Richard A. Hord,Wilber B. Huston,Harold B. Tolefson,1963 The Natural Space Environment National Aeronautics and Space Administration (NASA),2018-07-13 The effects of the natural space environments on spacecraft design development and operation are the topic of a series of NASA Reference Publications currently being developed by the Electromagnetics and Environments Branch Systems Analysis and Integration Laboratory Marshall Space Flight Center This primer provides an overview of the natural space environments and their effect on spacecraft design development and operations and also highlights some of the new developments in science and technology for each space environment It is hoped that a better understanding of the space environment and its effect on spacecraft will enable program management to more effectively minimize program risks and

costs optimize design quality and successfully achieve mission objectives James Bonnie F and Norton O W Compiler and Alexander Margaret B Editor Marshall Space Flight Center **Handbook of Geophysics and the Space Environment** Adolph S. Jursa, U.S. Air Force Geophysics Laboratory, 1985 *Physics of the Space Environment* Tamas I. Gombosi, 2004-08-19 This book provides a comprehensive introduction to the physical phenomena that result from the interaction of the sun and the planets often termed space weather *Physics of the Space Environment* explores the basic processes in the Sun in the interplanetary medium in the near Earth space and down into the atmosphere The first part of the book summarizes fundamental elements of transport theory relevant for the atmosphere ionosphere and the magnetosphere This theory is then applied to physical phenomena in the space environment The fundamental physical processes are emphasized throughout and basic concepts and methods are derived from first principles This book is unique in its balanced treatment of space plasma and aeronomical phenomena Students and researchers with a basic mathematics and physics background will find this book invaluable in the study of phenomena in the space environment **Physics of the Earth's Space Environment** Gerd Pröls, 2004-07-22 Presents the experimental results while explaining the underlying physics on the basis of simple reasoning and argumentation Assumes only basic knowledge of fundamental physics and mathematics as usually required for introductory college courses in science or engineering curricula Derives more specifics of selected topics as each phenomenon considered emphasizing an intuitive over a rigorous mathematical approach Directed at a broad group of readers and students THE SPACE ENVIRONMENT. S. H. Dole, RAND CORP SANTA MONICA CALIF., 1958 A brief review is presented of the major aspects of the space environment including celestial mechanics meteoritic particles and radiation problems The Natural Space Environment Bonnie F. James, 1994 The Space Environment / Le Milieu Spatial Alfred Ehmert, 2012-12-06 Organized by the International Academy of Astronautics and the International Astronautical Federation with the Support and Cooperation of UNESCO and the Scientific Cooperation of COSPAR **Protection of Materials and Structures From the Space Environment** Jacob Kleiman, Masahito Tagawa, Yugo Kimoto, 2012-09-22 The goals of the 10th International Space Conference on Protection of Materials and Structures from Space Environment ICPMSE 10J since its inception in 1992 have been to facilitate exchanges between members of the various engineering and science disciplines involved in the development of space materials including aspects of LEO GEO and Deep Space environments ground based qualification and in flight experiments and lessons learned from operational vehicles that are closely interrelated to disciplines of the atmospheric sciences solar terrestrial interactions and space life sciences The knowledge of environmental conditions on and around the Moon Mars Venus and the low Earth orbit as well as other possible candidates for landing such as asteroids have become an important issue and protecting both hardware and human life from the effects of space environments has taken on a new meaning in light of the increased interest in space travel and colonization of other planets And while many material experiments have been carried out on the ground and in

open space in the last 50 years LDEF MEEP SARE MISSE AOP DSPSE ESEM EURECA HST MDIM MIS MPID MPAC and SEED many questions regarding the environmental impact of space on materials remain either poorly understood or unanswered The coming generations of scientists will have to continue this work and tackle new challenges continuing to build the level of confidence humans will need to continue the colonization of space It is hoped that the proceedings of the ICPMSE 10J presented in this book will constitute a small contribution to doing so **Our Space Environment,**

Opportunities, Stakes and Dangers Claude Nicollier, Roger-Maurice Bonnet, 2016-02-03 This book explores the opportunities the potential and the hazards of Earth's immediate space environment It covers the physical characteristics of this portion of space the influence of deeper space observing and forecasting tools the problem of space debris the evolution of satellites the different orbits and their uses Earth's place in the solar system and its influence on climate and weather the sun and its action on our planet asteroid and comets and the means to detect them laws and regulations the political actors and role of nations *The Behavior of Systems in the Space Environment* R.N. Dewitt, Dwight Duston, Anthony K.

Hyder, 2012-12-07 A NATO Advanced Study Institute ASI on the Behavior of Systems in the Space Environment was held at the Atholl Palace Hotel Pitlochry Perthshire Scotland from July 7 through July 19 1991 This publication is the Proceedings of the Institute The NATO Advanced Study Institute Program of the NATO Science Committee is a unique and valuable forum under whose auspices almost one thousand international tutorial meetings have been held since the inception of the program in 1959 The ASI is intended to be primarily a high level teaching activity at which a carefully defined subject is presented in a systematic and coherently structured program The subject is treated in considerable depth by lecturers eminent in their field and of international standing The subject is presented to other scientists who either will already have specialized in the field or possess an advanced general background The ASI is aimed at approximately the post doctoral level This ASI emphasized the basic physics of the space environment and the engineering aspects of the environment's interactions with spacecraft

Magnetic Bearings for Instruments in the Space Environment Philip A. Studer, 1978 *Combined Space Environment on Spacecraft Engineering Materials* National Aeronautics and Space Administration (NASA), 2018-06-30 Spacecraft structures and surface materials exposed to the space environment for extended periods up to thirty years have increased potential for damage from long term exposure to the combined space environment including solar ultraviolet radiation electrons and protons and orbiting space debris The space environment in which the Space Station Freedom and other space platforms will orbit is truly a hostile environment For example the currently estimated integral fluence for electrons above 1 MeV at 2000 nautical miles is above 2×10^{10} electrons cm^{-2} day and the proton integral fluence is above 1×10^9 protons cm^{-2} day At the 200-400 nautical miles which is more representative of the altitude which will provide the environment for the Space Station each of these fluences will be proportionately less however the data indicates that the radiation environment will obviously have an effect on structural materials exposed to the environment for long

durations The effects of ultraviolet radiation particularly in the vacuum ultraviolet less than 200 nm wavelength is more difficult to characterize at this time Very little data is available in the literature which can be used for determining the life cycle of a material placed in space for extended durations of time In order to obtain critical data for planning and designing of spacecraft systems use of a small vacuum system at the Environmental Effects Facility at MSFC which can be used for these purposes was used A special effort was made to build up this capability during the course of this research effort and perform a variety of experiments on materials proposed for the Space Station A description of the apparatus and the procedure devised to process potential spacecraft materials is included Workman Gary L and Smith Guy A and Kosten Susan Unspecified Center NAS8 38609

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