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Spacecraft Contamination Environment

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Chairman/Editor

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1982

Spacecraft Contamination Environment

JR Anderson



Spacecraft Contamination Environment:

Spacecraft Contamination Environment, 1982 *Spacecraft Contamination Environment* Carl R. Maag, Jet Propulsion Laboratory (U.S.), 1983 **Spacecraft Water Exposure Guidelines for Selected Contaminants** National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Committee on Spacecraft Exposure Guidelines, 2008-12-21 NASA maintains an active interest in the environmental conditions associated with living and working in spacecraft and identifying hazards that might adversely affect the health and well being of crew members Despite major engineering advances in controlling the spacecraft environment some water and air contamination is inevitable Several hundred chemical species are likely to be found in the closed environment of the spacecraft and as the frequency complexity and duration of human space flight increase identifying and understanding significant health hazards will become more complicated and more critical for the success of the missions To protect space crews from contaminants in potable and hygiene water NASA requested that the National Research Council NRC provide guidance on how to develop water exposure guidelines and subsequently review NASA's development of the exposure guidelines for specific chemicals This book presents spacecraft water exposure guidelines SWEGs for antimony benzene ethylene glycol methanol methyl ethyl ketone and propylene glycol NASA/SDIO Space Environmental Effects on Materials Workshop, Part 1, 1989 The National Aeronautics and Space Administration NASA and the Strategic Defense Initiative Organization SDIO cosponsored a workshop on Space Environmental Effects on Materials at the NASA Langley Research Center from June 28 to July 1 1988 The joint workshop was designed to inform participants of the present state of knowledge regarding space environmental effects on materials and to identify knowledge gaps that prevent informed decisions on the best use of advanced materials in space for long duration NASA and SDIO missions Establishing priorities for future ground based and space based materials research was a major goal of the workshop The end product of the workshop was an assessment of the current state of the art in space environmental effects on materials in order to develop a national plan for spaceflight experiments The workshop was intended for participation by expert applied researchers systems technologists and program managers for spacecraft systems **The Determination of the Spacecraft Contamination Environment**, 1987 This report details our efforts in the determination of the on orbit environment surrounding spacecraft The research was performed for the Spacecraft Interactions Branch of the Space Physics Division of the Air Force Geophysics Laboratory This report includes contributions from our subcontractors EKTRON Applied Imaging and Miranda Laboratories The multilayer project consisted of three major tasks a literature survey preparation for the data of the Particle Analysis Cameras for Shuttle PACS and the analysis of the data to create a model of the orbital particulate environment During the literature search we discovered that many observations were presented with little or no insight provided Physical Sciences Inc PSI therefore undertook a critical review of the data in an attempt to reconcile seemingly contradictory observations and

provide needed understanding of the variety of unexpected processes occurring above spacecraft surfaces in low earth orbit We were able to make contributions to the understanding of the neutral molecular contamination cloud the modifications of the ionic environment the optical contamination glow and the earlier observations of particulates Keywords Contamination Optical environment Low earth orbit Spacecraft glow particulates Space shuttle Chemiluminescence Space environments Manned spaceflight Scientific and Technical Aerospace Reports ,1978 Fundamentals of Contamination Control Alan C. Tribble,2000 This Tutorial Text provides a comprehensive introduction to the subject of contamination control with specific applications to the aerospace industry The author draws upon his many years as a practicing contamination control engineer researcher and teacher The book examines methods to quantify the cleanliness level required by various contamination sensitive surfaces and to predict the end of life contamination level for those surfaces and it identifies contamination control techniques required to ensure mission success *Space Environmental Effects on Spacecraft* Edward Mark Silverman,1995 **Handbook of Environmental Degradation of Materials** Myer Kutz,2012-12-31 Nothing stays the same for ever The environmental degradation and corrosion of materials is inevitable and affects most aspects of life In industrial settings this inescapable fact has very significant financial safety and environmental implications The Handbook of Environmental Degradation of Materials explains how to measure analyse and control environmental degradation for a wide range of industrial materials including metals polymers ceramics concrete wood and textiles exposed to environmental factors such as weather seawater and fire Divided into sections which deal with analysis types of degradation protection and surface engineering respectively the reader is introduced to the wide variety of environmental effects and what can be done to control them The expert contributors to this book provide a wealth of insider knowledge and engineering knowhow complementing their explanations and advice with Case Studies from areas such as pipelines tankers packaging and chemical processing equipment ensures that the reader understands the practical measures that can be put in place to save money lives and the environment The Handbook s broad scope introduces the reader to the effects of environmental degradation on a wide range of materials including metals plastics concrete wood and textiles For each type of material the book describes the kind of degradation that effects it and how best to protect it Case Studies show how organizations from small consulting firms to corporate giants design and manufacture products that are more resistant to environmental effects **Space Environmental Effects on Spacecraft: LEO Materials Selection Guide, Part 1** ,1995

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