

Materials Degradation in Low Earth Orbit

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Note: This is not the actual book cover

Materials Degradation In Low Earth Orbit

Emilie Sanchez

A decorative red circular graphic with a gradient, appearing as a partial circle or arc, located to the right of the author's name.

Spacecraft Materials Degradation in Low Earth Orbit and Laboratory Simulation Blaine R. Spady,1995 Materials Degradation in Low Earth Orbit (LEO) Minerals, Metals and Materials Society Staff,1990 **Materials Degradation in Low Earth Orbit (LEO)** Venkataraman Srinivasan,1990-01-01 **Large Space Structures & Systems in the Space Station Era**,1992 **Large Space Structures & Systems in the Space Station Era**,1993 **Technology for Large Space Systems**,1988 Low Earth Orbital Atomic Oxygen and Ultraviolet Radiation Effects on Polymers Joyce A. Dever,1991 NASA SP.,1991 **Canadian Journal of Physics**,1991 Large Space Structures and Systems in the Space Station Era: A Bibliography with Indexes (supplement 04),1992 **Degradation Mechanisms of Materials for Large Space Systems in Low Earth Orbit** National Aeronautics and Space Administration (NASA),2018-08-20 Degradation was explored of various materials used in aerospace vehicles after severe loss of polymeric material coatings Kapton was observed on an early shuttle flight in low Earth orbit Since atomic oxygen is the major component of the atmosphere at 300 km and the shuttle s orbital velocity produced relative motion corresponding to approx 5 eV of oxygen energy it was natural to attribute much of this degradation to oxygen interaction This assumption was tested using large volume vacuum systems and ion beam sources in an exploratory effort to produce atomic oxygen of the appropriate energy and to observe mass loss from various samples as well as optical radiation Several investigations were initiated and the results of these investigations are presented in four papers These papers are summarized They are entitled 1 The Space Shuttle Glow 2 Laboratory Degradation of Kapton in a Low Energy Oxygen Ion Beam 3 The Energy Dependence and Surface Morphology of Kapton Degradation Under Atomic Oxygen Bombardment and 4 Surface Analysis of STS 8 Samples Gordon William L and Hoffman R W Unspecified Center NASA CR 181472 NAS 1 26 181472 NAG3 352 **30th Aerospace Sciences Meeting and Exhibit: 92-0760 - 92-0809**,1992 **Atomic Oxygen Durability Evaluation of Protected Polymers Using Thermal Energy Plasma Systems**,1995 **Metallurgical Coatings and Thin Films 1994**,1994 NASA Conference Publication,1993
International Aerospace Abstracts,1996 □□□□□□□□□□□□□□□□ □□□□□□ (Japan),1900 **Journal de physique**,2000 **DYMAT 2000, Kraków**,2000 Engineered Materials Abstracts,1994-07

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Materials Degradation In Low Earth Orbit Introduction

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