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[A Critical Overview on Spacecraft Charging Mitigation Methods](#)

Dec 2003 8 pages

Authors: [Shu T. Lai](#); [AIR FORCE RESEARCH LAB HANSCOM AFB MA SPACE WEATHER CENTER OF EXCELLENCE](#)

Full Text

... communications, control, and operations of spacecraft, and may be harmful to the health of the electronics on the spacecraft. Several mitigation methods have been proposed or tested in recent years. This paper presents a critical overview on all of the mitigation methods known to date: 1) passive methods using sharp spikes and high secondary emission coefficient surface materials and ... illustrate the ideas by means of examples of results obtained on SCATHA and DSCS satellites. Finally, mitigation of deep dielectric charging is briefly discussed.

[Analysis of the Causes of Chemical Spills from Marine Transportation or Related Facilities](#)

Mar 1996 76 pages

Authors: [Danny Whitaker-Sheppard](#); [Eric Kallen](#); [Thearin Wendel](#); [BOOZ-ALLEN AND HAMILTON INC MCLEAN VA](#)

Full Text

... Safety Offices, review of Federal and State databases, and review of literature sources. The potential causes that were considered included human error, equipment failure, structural failure, and weather. Other characteristics of spills examined included time of day, location, and substance. The Management Oversight and Risk Tree (MORT) analysis technique was used to complete the analysis. The results of the analysis led to a number of conclusions and recommendations for the prevention and mitigation of marine chemical spills in the future.

[Proceedings of the 1993 Battlefield Atmospheric Conference, Held in Las Cruces, New Mexico, on 30 November - 2 December 1993](#)

Dec 2, 1993 890 pages

Authors: [ARMY RESEARCH LAB WHITE SANDS MISSILE RANGE NM BATTLEFIELD ENVIRONMENT DIRECTORATE](#)

Full Text

The Battlefield Atmospheric Conference was held in Las Cruces, New Mexico, on 30 November - 2 December 1993. The conference covered Battle Weather Data, Simulation, Modeling, Atmospheric sensing, Atmospheric assessment, Mitigation, Exploitation, various posters and presentations.

[The Transformation of Contract Incentive Structures](#)

2003 27 pages

Authors: [Robert Graham](#); [DEFENSE ACQUISITION UNIV ALEXANDRIA VA](#)

Full Text

The National Polar-orbiting Operational Environmental Satellite Systems Acquisition and Operations contract for the next generation of weather satellites uses innovative incentive structures to motivate contractor performance. The incentive approach combines an award fee and mission success fee arrangement to include a cost mitigation approach putting fee at risk and tying corporate executive pay to contract performance. This business approach is complemented by a shared ownership approach to the ...

[Charging of Mirror Surfaces in Space](#)

2005 12 pages

Authors: [Shu T. Lai](#); [AIR FORCE RESEARCH LAB HANSCOM AFB MA SPACE VEHICLES DIRECTORATE](#)

Full Text

... the plasma electron temperature is high, the equilibrium potential may reach several kilovolts negative, despite sunlight. This occurs often in the morning hours and in severe space weather. We stress that in general, the finite reflectance and Sun angle should be included in calculations of spacecraft charging in sunlight. As an important application for mirror charging, we ... , the sudden 25% degradation of PanAmSat PAS-7, a Boeing 702 model satellite, did occur shortly after eclipse exit in the morning of 6 September 2001. Finally, we suggest a simple mitigation method for solving the problem.

[Windstorm Impact Reduction Implementation Plan](#)

2007 30 pages

Authors: [EXECUTIVE OFFICE OF THE PRESIDENT WASHINGTON DC NATIONAL SCIENCE AND TECHNOLOGY COUNCIL](#)

Full Text

... parts of larger efforts and are not coordinated among the agencies. For example, the National Oceanic and Atmospheric Administration (NOAA) makes weather predictions regarding several physical parameters of which wind is only one part; the National Institute of Standards and Technology (NIST) ... , and the private sector, will improve the understanding of windstorms and their impact, and develop and encourage implementation of cost-effective mitigation measures to reduce those impacts while promoting community resilience. This working group shall meet at least quarterly, report to the Subcommittee ...

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