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- [4] A. R. Frederickson, "New scaling laws for spacecraft discharge pulses," in Proceedings of the 7th International Spacecraft Charging Technology Conference, Noordwijk, The Netherlands, 2001.
- [5] A. R. Frederickson and D. H. Brautigam, "Mining CRRES IDM Pulse Data and CRRES Environmental Data to Improve Spacecraft Charging/Discharging Models and Guidelines," prepared for Marshall Space Flight Center under H-Order 34774D, MSFC, Alabama, June 2004.
- [6] Joseph I. Minow, Victoria N. Coffey, Linda N. Parker, William C. Blackwell, Insoo Jun, and Henry B. Garrett, "Evaluation of bulk charging in geostationary transfer orbit and Earth escape trajectories using the NUMIT 1-D charging model," in proceedings of the 10th International Spacecraft Charging Conference, Biarritz, France, 2007.
- [7] I. Jun, H. B. Garrett, W. Kim, and J. I. Minow, "Review of an Internal Charging Code, NUMIT," IEEE Trans. Plasma Sci., vol. 36, p. 5, 2008.
- [8] Brian P. Beecken and Jordan McIver, "Extending the NUMIT Simulation for Modeling Deep-dielectric Charging in the Space Environment," in Proceedings of the 11th International Spacecraft Charging Technology Conference, Albuquerque, NM, USA, 2010.
- [9] Brian P. Beecken and Bryan M. Wallin, "Modeling of Deep-dielectric Spacecraft Charging in Realistic Environments with NUMIT2.," Proceedings of the 3rd AIAA Atmospheric and Space Environments Conference, Honolulu, Hawaii, USA, 2011, AIAA 2011-3975.
- [10] Wousik Kim, Insoo Jun, and Henry B. Garrett, "NUMIT 2.0: the latest version of the JPL internal charging analysis code," in Proceedings of the 12th International Spacecraft Charging Technology Conference, 2012.
- [11] Brian P. Beecken, Joel T. Englund, Jonathan J. Lake, and Bryan M. Wallin, "Application of AF-NUMIT2 to the Modeling of Deep-dielectric Spacecraft Charging in the Space Environment," to be published in Proceedings of the 13th International Spacecraft Charging Technology Conference, Pasadena, California, USA, 2014.
- [12] J. R. Dennison, Jodie Gillespie, Joshua Hodges, R. C. Hoffmann, "Temperature Dependence of Radiation Induced Conductivity in Insulators," Application of Accelerators in Research and Industry: 20th International Conference, Ed. by F. D. McDaniel and B. L. Doyle, 2009.
- [13] Dale C. Ferguson, Todd A. Schneider, and Jason A. Vaughn. "Effects of Cryogenic Temperatures on Spacecraft Internal Dielectric Discharges," Proceedings of the 1st International Conference on Space Technology, 2009.
- [14] J. R. Dennison, A. Sim, J. Brunson, J. Gillespie, S. Hart, and J. Dekany, C. Sim and D. Arnfield, 2009, "Engineering Tool for Temperature, Electric Field and Dose Rate Dependence of Low Conductivity Spacecraft Materials," presentation and paper, 47th AIAA Aerospace Sciences Meeting Including The New Horizons Forum and Aerospace Exposition, 5 - 8 January 2009, Orlando, Florida, AIAA 2009-562.
- [15] D.C. Ferguson, T.A. Schneider, and J.A. Vaughn, "Effects of Low Temperature on Charging of Spacecraft Dielectrics," 46th AIAA Aerospace Sciences Meeting and Exhibit, Reno, Nevada, Jan. 7-10, 2008, AIAA-2008-449.
- [16] J. R. Dennison, A. R. Frederickson, N. W. Green, C. E. Benson, J. Brunson and P. Swaminathan, "FEP Teflon Full Mcd rept.pdf, Measurement of Charge Storage Decay Time and Resistivity of Spacecraft Insulators," in The Charge Collector, a NASA SEE Program Publication, Jan. 31, 2005, <http://see.msfc.nasa.gov/>.
- [17] V. A. Davis, M. J. Mandell, and R. H. Maurer, "Preliminary surface and internal charging analysis of the radiation belt storm probes spacecraft," Proceedings of the 10th International Spacecraft Charging Technology Conference, Biarritz, France, June 2007.
- [18] J. F. Fowler, "X-ray induced conductivity in insulating materials," Proc. R. Soc. London, vol. A236, p. 464, 1956.
- [19] T. Tabata and R. Ito, "An Algorithm for the Energy Deposition by Fast Electrons," Nuclear Science and Engineering, vol. 53, p. 226, 1974.