

Meeting: 1005, Newark, Delaware, SS 13A, Special Session on Integral and Operator Equations

1005-46-182 **Terry L Herdman*** (herdman@icam.vt.edu), ICAM 0531, Virginia Tech, Blacksburg, VA 24061.
Mathematical Models for Large Space Systems.

Model-based control design and optimization have tremendous potential for applications to ultra-lightweight large spacecraft. However, to fully realize this potential it is essential that one construct new mathematical models, develop advanced computational tools and provide a theoretical framework to evaluate the accuracy and efficiency of these tools. We will discuss mathematical models for a class of large space systems. (Received February 08, 2005)