



X-37 C/Sic Ruddervator Subcomponent Test Program

By Larry D Hudson, Craig a Stephens

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.Completed thermal-mechanical and mechanical load testing: a) 6 re-entry heating tests (3 with loading to 50 DLL), 3 hypersonic cruise tests with loading to 50 DLL and 4 high-temperature modal survey tests. b) 9 tests to 100 DLL. High-temperature modal survey results were inconclusive due to exceeding capability of some accelerometers. Overall good correlation between analysis and measured results for windward and leeward surface temperatures. Generally poor correlation between analysis and measured results for spindle area temperatures. Excellent test-to-test repeatability in strain and deflection data for 100 DLL testing. In-situ thermography images taken before and after thermal testing showed only minor changes in initial defects. Final detailed thermography tests scheduled for completion in Oct 09. In process of completing test documentation and test data analysis. Final reports complete by Dec 09. All analysis, test data, test plans, reports, photos, etc. will be made available to the technical community via the CMC Wiki.



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