## MATERIALS AND STRUCTURES SYMPOSIUM (C2) Space Structures - Dynamics and Microdynamics (3)

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## MECHANICAL ENVIRONMENT TESTS OF CHINA COMMUNICATION SATELLITE

## Abstract

Mechanical environment tests of several spacecrafts designed and manufactured based on DFH-4 satellite platform are developed in 2011. This paper introduces all the mechanical environment tests, and presents the notching strategy of acceleration input. And this paper also surveys whole spacecraft mechanical environment in the mechanical tests, and presents more reasonable equipment test specifications associated with the result of vibration tests and whole spacecraft mechanical analysis. In the end, forcelimited vibration testing technology is stressed for vibration tests of spacecrafts based on DFH-4 platform.