SPACE PROPULSION SYMPOSIUM (C4) Missions Enabled by new Propulsion Technology and Systems (6)

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THE DESIGN OF ELECTRICAL TETHER FOR THE ORBITAL CONTROL OF A CUBESAT PAIR

Abstract

This paper presents an innovative engineering approach for the orbital control of a CubeSat Pair using an electrical tether. The principle of space electrical tether is introduced following the engineering concept design of such a tethered Cubesat based system. The system level miniaturization for the design, implementation and operation of such a space tether is also discussed.