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The Modern Day Space Elevator as a Permanent Transportation Infrastructure (3)

Author: Mr. Daniel Griffin
Royal Institute of Technology (KTH), Sweden

Dr. Peter Swan
Space Elevator Development Corporation, United States

STUDY OF POTENTIAL LOW ALTITUDE STATION ATTACHED TO SPACE ELEVATORS

Abstract

With the eventual deorbit of the International Space Station (ISS), there exists a growing need for a replacement low Earth facility. After a successful span of active Space Elevators, a new station could be built and supported by a series of localized tethers. This new facility would operate at the current global needs, potentially fulfilling areas such as scientific testing, tourism, and commercial ventures. Existing between 200-400km above the Earth's surface, the station would be a strong replacement for the ISS with ample rooms and commodities of the designers' desires. The paper will look at the potential benefits that this station could provide as well as some potential requirements for such a station to be designed and built.