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TETHER TECHNOLOGY FOR SPACE SOLAR POWER SATELLITE AND SPACE ELEVATOR

Abstract

Tether technology is one of innovative advanced technologies in space. Two big space structures in space are introduced to utilize the tether technology in this paper, including the space solar power satellites and the space elevator. These two projects represent dominant feature to clarify tether technology with their very large scale. They are now the objects of space projects due to great deals of recent advancement in space technology. The space solar power satellite will have dimensions of 30 40 km and the space elevator 100,000km. Space tether technology is one of the advanced space technology and these two big projects owe much their realization in tether technology. The present paper also introduces recent space projects on tether technology which are employed in order to realize these two big projects.