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SPACE AS A DREAM DESTINATION TO A MANKIND: SPACE TOURISM FLIGHT DESIGN WITH
ECONOMICAL AND TECHNOLOGICAL FEASIBILITY

Abstract

Space is a common man's dream. In the decades of efforts in space technology, the developments have created a platform to develop space ships for the purpose of Space tourism. The great destinations in the space are initially expensive due to the technological constraints. This paper creates a road map in organizing zero gravity flights from the earth to the Low earth orbit in range of 500- 700 kilometers above the earth. The total radiation effects and the mode of facilitates that need to be designed within the ship are considered. The spacecraft needs to be a hosting platform and also as a travelling vehicle. In the creation of space hotels and other support systems to manage tourists in the space required many installations in the space and will be a time taking process under these conditions. This paper will consider the most economical feasible approach in executing the first space tourism flight with in the lower earth orbit range. This can be designed with three days mission time including travel with the minimum number of people. It may also give us ideas in understanding the public behavior in space and their requirements in creating comfortable public space environment. Besides the economics, this paper will address technological feasibility like design of highly reusable engines and vehicles, design of efficient propulsion system for dual power generation, off board energy generation for launch assistance, advanced automation and robotics design, thrust argumentation systems and radiation protection to the crew members as well as the passengers. In the economical feasibility it is essential to bring down the cost of the launch and travel with the efficient methods. Thus, it can be accessible to the common man, which will help us in creating space yards in the various orbits and tourist residing systems with the help of mass travel. It is hoped that this paper will demonstrate the feasibility analysis of space tourism using only spacecraft and that it can be done within the technology and budget constraints of today. In addition, some solutions are proposed to make space travel become more common to regular men.