A Mathematical Modelling of the Falcon 9 Hover Slam

A Mathematical Exploration



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1 Introduction

The International Space Station (commonly referred to as the ISS) is a man-made, habitable satellite developed in a joint venture among five agencies: NASA (USA), Rocosmos (Russia), JAXA (Japan), The European Space Agency, and the Canadian space agency. The first module was launched on the Russian "Proton" rocket in 1998, and the last module to be launched was the "International Docking Adatper-2", launched by the private company- SpaceX in July 2016.

- 1.1 Personal engagement
- 2 Background theory
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- 3 Modelling