

9 Week 12

9.1 Key concepts

N/A

9.2 Important concepts

- Tethers in space (Δv s)

9.3 Relevant concepts

- Tethers in space (as generator and motor)
- Newspace vs old space
- Trends in operations
- In-orbit servicing
- Satellite constellation (incl design factors)
- Outer Space Treaty
- Agencies and operators (only the largest ones: NASA, ESA, SpaceX)
- Kessler syndrom, probability of collision
- Major mission tasks (only the most important points)
- Trends in mission operations

9.4 Advanced concepts

- Intersatellite links
- Details of the constellation design
- Space activities in the world
- Collision screenings, CDM analysis, COLA
- Mission lifetime cycle
- CHEOPS case study