

5 Week 06

5.1 Key concepts

N/A

5.2 Important concepts

- Phase angle
- Catch-up rate
- LVLH frame (general case is an advanced concept)
- Relative motion (including being able to draw them)

5.3 Relevant concepts

- Rendezvous problem
- Phasing manoeuvres
- Motivations for RPOD
- Trends in satellite population (no details needed)
- Debris problem, incl mitigations and disposal guidelines and graveyard orbit

5.4 Advanced concepts

- Derivation of the catch-up rate
- Navigation for RPO
- RPO profiles for ATV, Crew Dragon, Adras-J
- Docking
- Orbital debris flux