

PENSUM/CURRICULUM Space technology I&II (TTT4234 – TTT4235)

Available material:

A. Compendium: Microgravity – Anders Johnsson, available on *It's learning*

B. The International Handbook of Space Technology -
<http://link.springer.com/book/10.1007%2F978-3-642-41101-4>

NB! Always open links in a new browser window, and not directly from *It's learning*!!

C. Presentations from the lectures on *It's learning*

D. Exercises on *It's learning*

In general, the main focus is on understanding principles. Memorizing complex formulas is not necessary.

Methodology and solution of exercises should be studied, they will be made available on *It's learning*.

List of texts to read:

- 1) Main topics in all lectures on *It's learning*, (C).
- 2) Chapters
 - 1, (Intro, Earth Obs., Geomatics)
 - 2, (Intro)
 - 3, (Space environment, the atmosphere, polar light, satellite platforms)
 - Intro 4, 4.1, 4.1.1-4.1.6, 4.3.3-4.3.5, 4.4, 4.5, 4.5.1-4.5.5, (Orbits, Space environment, satellite platforms, Earth Obs., Geomatics)
 - Intro 6, 6.1, (Satellite platforms)
 - Intro 8, 8.1, 8.2, (Satellite platforms, Transport)
 - 10.1, 10.2, 10.2.1-10.2.2, 10.2.8, (Satellite platforms)
 - 11.1, 11.2, 11.2.1, 11.3 up to 11.3.1 (not including), 11.4, 11.4.1, 11.5 up to 11.5.1 (not including), 11.6 up to 11.6.1 (not including), (Satellite platforms, Transport)
 - Intro 12, 12.2-12.4, 12.5, 12.5.1-12.5.4, (Satellite platforms, Earth Obs/Mon., Geomatics)
 - 13.1, 13.1.1 up to 13.1.1.1 (not including), 13.1.3 up to 13.1.3.1 (not including), 13.2, (Satellite platforms)
 - Intro 14, 14.1-14.3, 14.4.4, 14.5.1, 14.5.1.1 up to 14.5.1.2 (not including), 14.5.2-14.5.5 (Satellite communication)
 - 17, (Man in space, Ciris lectures, Microgravity)
 25. (All)
- 3) All chapters except 2.6 in Compendium (A): Microgravity. (Man in space, Ciris lectures, Microgravity)

4) Exercises (D).