

**DM201: Graph algorithms with applications — Weekly note 4**

**Handout material in week 7:** J. Bang-Jensen, D. Goncalves, I.L. Gørtz, Finding well-balanced pairs of edge-disjoint trees in edge-weighted graphs, *Discrete Optimization* **4**, (2007) pp 334–348.

**Stuff covered in week 6-7:**

- Most of Chapter 5 i (J) on matroids (section 5.1-5.4)
- Flows in networks. Sections 3.5-3.6 in (BG)
- Left for self study (BG) sections 3.1-3.4 and 3.7.

**February 19, 2008:** There will be no classes. Instead you should read (BG) 3.1-3.9 carefully and do the following exercises 3.8, 3.22, 3.25, 3.26. We will not discuss these exercises later so it is your own responsibility to do them. The same holds for Section 3.7. Finally you should take a look at the paper handed out to see the role of matroids in that paper. We will get back to the paper later.

**Lecture, February 21, 2008:** Matroid intersection and matroid union. Korte and Vygen sections 13.5-13.6