

MEK3300/MEK4300 Viscous slow and turbulence

Preliminary syllabus spring 2012

The text book is "Viscous fluid flow" by Frank M. White. It is published by McGraw-Hill (C) 2006, 1991, 1974.

The following parts are pensum

- From chapter 3
 - 3-1; 3-2
 - 3-3.1 through 3-3.7. In 3-3.3 the students must be familiar with the flow solutions for circular, elliptical, rectangular and annular ducts.
 - 3-4; 3-5; 3-6; 3-7.
 - 3-8.1.1, 3-8.1.2; 3-8.2.
 - 3-9.1 through 3-9.5.
- From chapter 4:
 - 4-1; 4-2; 4-3.1, through 4-3.3.
 - 4-4
- From chapter 6:
 - 6-1; 6-2.
 - 6-3.1
 - 6-4.1 and 6-4.2.
 - 6-5.1; 6-5.2 and 6-5.4 (not 6-5.3)
 - 6-7.1.1; 6-7.2.1; 6-7.2.2; 6.7.2.3