Automatic Control III – A few words about the course

Thomas Schön
Division of Systems and Control
Department of Information Technology
Uppsala University.

Email: thomas.schon@it.uu.se,
www: user.it.uu.se/~thosc112
"Automatic control is the art of getting things to behave as you want."

What is new in the course?

1. More on multivariable systems
2. Systematic design methods
3. Fundamental bounds on control performance
4. Nonlinear dynamics
5. Optimal control

http://www.youtube.com/watch?v=SOESSCXGhFo
1. **Lecture 1**: Introduction and linear multivariable systems
2. **Lecture 2–5**: Multivariable linear control theory
3. **Lecture 6–8**: Nonlinear control theory
4. **Lecture 9**: Optimal control
5. **Lecture 10**: Summary and repetition

Guest lecturer from industry
Passing the course (grade 3):

- Two compulsory homework assignments
- An oral exam that must all be passed. The oral exam is based on the home work assignments.

For grades 4 and 5:

- Besides fulfilling the requirements for grade 3 you have to take an additional written exam (you can bring the textbook).