Instructor: Dr. Murat Arcak  (Email: arcak@eecs.berkeley.edu, Office: Cory 569, Phone: (510) 642-4804)
Office Hours: Wednesday 5-6 pm or by appointment
Teaching Assistant: Jimmy Tang  (Email: jimmytang@gmail.com)
Office Hours: Thursday 1-2 pm (Moore Room, Cory Hall)
Administrative Assistant: Rosita Alvarez-Croft  (Email: rosita@eecs.berkeley.edu, Phone: (510) 643-4976)
Class Hours and Room: Tuesday and Thursday, 9:30 - 11:00 am, 70 Evans
Discussion Sections: Tuesday 2:00-3:00 pm, 205 Dwinelle
                            Friday 10:00-11:00 am, 293 Cory
Course Web site: http://www-inst.eecs.berkeley.edu/~ee123/sp09/
In addition, bSpace will be used to post solutions and grades for tests and homework sets.
Prerequisite: EE 120, graduate standing, or consent of instructor
Reference Books: The following are on reserve for 1-day loan in the Kresge Engineering Library:
Grading: Homework: 20 points
           Midterm 1: 25 points
           Midterm 2: 25 points
           Final: 30 points
Homework: Weekly homework sets will be assigned. 20% penalty for each session late.
           Submission will NOT be accepted if more than two sessions late.
Midterm and final dates:
March 5, Thursday: Midterm 1 (in class)
April 16, Thursday: Midterm 2 (in class)
May 18, Monday: Final  (8:00 am – 11:00 am; location to be announced)
Tentative Course Outline:
- Review of discrete-time signals and systems, Discrete-Time Fourier Transform (DTFT), z-Transform (Chapters 2 and 3); digital filter structures (Chapter 6)
- Discrete Fourier Transform (DFT) and Fast Fourier Transform (FFT) (Chapters 8 and 9)
- Sampling and quantization, finite word length effects (Chapters 4 and 6)
- Frequency response of LTI systems (Chapter 5) and filter design techniques (Chapter 7)