COE/EE 243 Homework Assignment #4 Due Wednesday February 26 by 5:00pm

Show your work on all of the problems below. If you want to see sample problems with solutions go to http://www.ddpp.com/student/student.html or the examples on the course web page.

- 1. Use the Quine-McCluskey procedure to find all of the prime implicants for $f(a, b, c) = \sum m(2, 4, 6, 7)$.
- 2. Using a prime implicant chart, find all minimum sum-of-products solutions for the function of problem 1.
- 3. Use the Quine-McCluskey procedure to find all of the prime implicants for $f(a, b, c, d) = \sum m(0, 1, 5, 6, 8, 9, 11, 13) + \sum d(7, 10, 12)$
- 4. Using a prime implicant chart, find all minimum sum-of-products solutions for the function of problem 5.
- 5. Problem 4.67 in your text.