## 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.
