ECE 249 Lab 5 Spring 2005

This lab is due on March 16th. The task is to design and layout a full adder. Follow the design and sizing suggestions in Figure 11-6 from the book. You will need to draw the schematics and then provide an optimal layout, and then simulate using the Cadence tools. The mirror design in Figure 11-6 should give you an idea on how to layout the adder. Hand in the schematics, the layout, LVS output, and simulation results. The truth table for a full adder is as follows.

INPUTS			OUTPUTS	
Α	В	Cin	S	Cout
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1