Radio Frequency Engineering COMM 603
Major Assignment 1

Name:
ID:
Tutorial:

Hints:

- The Deadline for submitting the assignment is on Wednesday 26/03/2014 at 4:00 PM in submission locker #0 located in C3. 3rd floor infront of the RF lab.
- Late Submissions will NOT be accepted!
- Copied Assignments will be graded ZERO!
Problem 1:

Determine the ABCD and S-parameters of the following network.
Problem 2:

Determine the Outputs $B_1$ and $B_2$ in terms of input $A_1$. Assume that all couplers and power dividers are ideal.
Problem 3:

A 6-finger Lange Coupler is shown in figure. Determine the Even and Odd Characteristic impedances of the coupler in terms of the structure capacitances \((Z_{0e6}, Z_{0o6})\).
Problem 4:

Find the S-parameters for the 4-port Bagley power divider shown below.