

ENEE 610 Fall 2013
Topics for the final exam.

1. PR properties
2. Use and meaning of Even part
3. Properties and synthesis of RC and LC circuits
4. Use of Richards' function in PR synthesis
5. Gyrator, transformer and op-amp descriptions and relations
6. Oriented graphs, cut-sets and tie-sets
7. $Y(s)$ matrices, indefinite, nodal, 2-port
8. V_o/V_i & V_o/I_{in} transfer functions; Poles and zeroes
9. **State variable equations**