

## **Final Exam Overview**

### **Test#1 Material (25%)**

Basic definitions and units  
Relationships for Q, I, V, P, and W  
Simple resistive circuits  
Circuits with dependent sources  
 $P_{\text{delivered}} = P_{\text{absorbed}}$

### **Test#2 Material (35%)**

Mesh equations  
Node equations  
Operational Amplifiers

### **Test#3 Material (35%)**

Practical sources (real sources)  
Source transformations  
Superposition  
Thevenin's and Norton's theorems  
Maximum power transfer theorem  
Capacitors and inductors

- physical properties
- basic relationships for V, I, P, and W
- key facts

### **Test#4 Material (5%)**

First order circuits  
Second order circuits  
Unit step functions

Note: Percentages are approximate values