FINAL EXAM CIRCUIT ANALYSIS

CHECKLIST

CIRCUIT VARIABLES
International System of Units (SI units)
Relationship between Voltage, Current, Power and Energy
CIRCUIT ELEMENTS
Voltage and current sources
Ohm's law
Kirchhoff's laws (KCL and KVL)
Circuit analysis containing dependent sources
SIMPLE RESISTIVE CIRCUITS
Resistors in series and parallel
Voltage division and current division rules
Delta-to-Wye and Wye-to-delta circuits
TECHNIQUES OF CIRCUIT ANALYSIS
Node-voltage and mesh-current methods
Thevenin and Norton equivalents with dependent sources
Thevenin and Norton equivalents with dependent sources Maximum power transfer
Maximum power transfer
Maximum power transfer
Maximum power transfer Inductor and capacitor (voltage,current,power and energy)
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SINUSOIDAL STEDY-STATE POWER CALCULATIONS
Instantaneous power
Series and parallel impedances circuits analysis in frequency domain using phasor
Average and reactive power
Rms value and power calculation
Complex power
O Power calculation
BALANCED 3-PHASE CIRCUITS (Application of sinusoidal steady state analysis)
3-phase voltage sources
Balanced 3-phase voltages
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