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Network Analysis Tuition

Quick Contact

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Network Analysis Syllabus

Unit 1 - Basic Concepts - 7 hours

Practical sources, Source transformations, Network reduction using Star – Delta transformation, Loop and node analysis With linearly dependent and independent sources for DC and AC networks, Concepts of super node and super mesh.

Unit 2 - Network Topology - 7 hours

Graph of a network, Concept of tree and co-tree, incidence matrix, tie-set, tie-set and cut-set schedules, Formulation of equilibrium equations in matrix form, Solution of resistive networks, Principle of duality.

Unit 3 - Network Theorems 1 - 6 hours

Superposition, Reciprocity and Millman’s theorems.

Unit 4 - Network Theorems II - 6 hours

Thevinin’s and Norton’s theorems; Maximum Power transfer theorem

Unit 5 - Resonant Circuits - 7 hours

Series and parallel resonance, frequency-response of series and Parallel circuits, Q –factor, Bandwidth.

Unit 6 - Transient behavior and initial conditions - 7 hours

Behavior of circuit elements under switching condition and their Representation, evaluation of initial and final conditions in RL, RC and RLC circuits for AC and DC excitations.

Unit 7 - Laplace Transformation & Applications - 6 hours

Solution of networks, step,ramp and impulse responses, waveform Synthesis.

Unit 8 - Two port network parameters - 6 hours

Definition of z, y, h and transmission parameters, modeling with these parameters, relationship between parameters sets.