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A loop is any closed path in a circuit. A network with b branches, n nodes, and l independent loops will satisfy the fundamental theorem of network topology: $b = l + n - 1$. Electrical Engineering
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Basic Laws Circuit Theorems Methods of Network

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Vol. I - Network Analysis - Albert T.P. So, Wai L. Tse
Encyclopedia of Life Support Systems (EOLSS) the permeability of the material of torus and r is the radius of the torus. Inductive reactance X_L of an inductor is defined as $X_L = j\omega L = j\%L$
(5) 3.

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NETWORK ANALYSIS & SYNTHESIS . SYLABUS Module-I Transients: DC and AC analysis of RL, RC and RLC series circuits. Resonance: Series and Parallel resonance. Loop and node variable analysis, Waveform Synthesis-The Shifted Unit Step, Ramp and ... presentation of mesh analysis for dc circuits. Preferably all current sources are transformed to ...

NETWORK ANALYSIS & SYNTHESIS

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