

## 1: Analysis and Design of algorithms - Study Notes for GATE

From the topics of NETWORK THEORY And DIGITAL CIRCUITS, numerical answer type problems along with Moderate MCQs will also be included (as per GATE trend). For MODERATE difficulty and numerical problems we have provided detailed solutions and tips.

What is an electric network? An electric network is an interconnection of physical electrical devices such as an energy source or sources, an energy converter or converters load or loads, and conductors that connect them. What is an energy source? An energy source or source, such as primary or secondary cell, a generator, and the like, is a device that converts chemical, mechanical, thermal or some other form of energy into the electrical energy. What is an energy converter? An energy converter, also called the load, such as lamp, heating appliance, or electric motor, converts electrical energy into light, heat, mechanical work etc. A junction or node is a point in a network where two or more branches meet. Distinguish between mesh and loop of network. A loop is a closed path in a network formed by a number of connected branches. Mesh is a loop that contains no other loop within it. What is the utility of superposition theorem? This theorem is applied when we are to determine the current in one particular branch of a network containing several voltage sources or current sources or both voltage sources and current sources. What is the utility of Thevenin theorem? It makes the solution of the complicated networks particularly electronic networks quite simple. What is maximum power transfer theorem? Where does the Millman theorem find utility? In practice, cases frequently arise where a network has only two terminal points between which any number of parallel branches may be connected. This theorem enables a number of voltage or current sources to be combined into a single voltage or current source. Give the relationship between resistances connected in delta and equivalent star systems? The equivalent star resistance connected to a given terminal is equal to the product of the two delta resistances connected to the same terminal divided by the sum of the delta connected resistances. Give the relationship between resistances connected in star and equivalent delta systems? The equivalent delta resistance between two terminals is the sum of the two star resistances connected to those terminals plus the product of the same divided by the third star resistance. According to this theorem the summation of instantaneous powers for the n-branches in an electric network is always zero. Alternatively this theorem may be narrated as below: If there are n elements in any network;  $i_1, i_2, i_3 \dots i_n$ . This theorem is applicable to a very general class of lumped networks composed of elements that are linear or non-linear, active or passive, time invariant or time variant. Explain, why bending a wire does not affect electrical resistance? Free electrons in a wire have small value of drift velocity and hence low value of inertia of motion. Due to it, they are able to go around and bend easily.

## 2: Network analysis MCQ/Quiz

The topics that are covered in this PDF containing Network Analysis Year GATE Solved Questions are: Network solution methods: nodal and mesh analysis; Network theorems: superposition, Thevenin and Norton's, maximum power transfer; Wye-Delta transformation; Steady state sinusoidal analysis using phasors; Time domain analysis of simple linear.

## 3: GATE previous question papers for Electrical engineering-EEE free pdf

Questions & Answers on Useful Theorems in Circuit Analysis The section contains questions and answers on star delta transformation, superposition and thevenins theorem, nortons, reciprocity and compensation theorem, maximum power transfer theorem, tellegens and millmans theorem.

## 4: DC Network Analysis Question with Answer

3. In the circuit shown, the switch SW is thrown from position A to position B at time  $t=0$ . The energy (in  $\mu\text{J}$ ) taken from the 3 volts source to charge the  $\hat{\mu}\text{F}$  capacitor from 0 volts to 3 volts is.

## NETWORK ANALYSIS GATE QUESTIONS WITH SOLUTIONS pdf

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