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Theorems
Network
Problems With
Solutions
Theorems
Problems
With
Solutions

Thevenin's Theorem -
Circuit Analysis
Thevenin's theorem
circuit problem solution

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~~easy steps Thevenin
Theorem Thevenin
Equivalent Circuit
Thevenin Problems
Network Theorems
Network Analysis~~

NETWORK

THEOREM VERY
IMPORTANT

LECTURE BY V.K

MEHTA Thevenin's

Theorem. Example with
solution Norton's

theorem problem

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Theorems

solution Lecture - 34

Network Theorems(1)

Thevenin's Theorem

(Problem 1)

Superposition Theorem

Explained (with

Examples) Thevenin's

Theorem with

Dependent Sources

Introduction to Network

Theorems The

Thevenin Equivalent

Circuit Thevenin's

theorem - Example

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Circuits 1 - Thevenin
and Norton Equivalent

Thevenin's equivalent
with dependent and
independent sources

Problem 5.53

Superposition Theorem
with example Electrical
Engineering: Ch 4:

Circuit Theorems (16 of
35) Thevenin's
Theorem Ex. 1

Thevenin and Norton
Equivalent Circuit

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Thevenin's theorem
with dependent source
Superposition Theorem

II Statement \u0026

Explanation with

example II Basic

Electronics II

B.Sc.Physics I Electrical

Engineering: Ch 4:

Circuit Theorems (15 of

35) Thevenin's

Theorem Defined

numerical on

superposition theorem#

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Theorems
Superposition

Theorem# Network

Theorems# Network

Theory 3. 8 solved
problems on Norton's
theorem || Network
Theorems ||

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CIRCUITS ESE-
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AND SOLUTIONS

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Lecture 51: Network
Theorem - I

~~Superposition Theorem
with Dependent Sources~~

Superposition Theorem

~~Network Theorems |~~

~~Part 1 | Important~~

~~GATE Questions |~~

~~Network Theory Lec-10~~

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~~From Network~~

~~Theorem Network~~

~~Theorems Problems~~

~~With Solutions~~

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Theorems
Problems With

Network Theorems Problems With

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Theorems (Part

I)-Numerical Problems

Key points: - The problems considered in this set are involving both dependent and independent sources.

Following points may be noted Dependent sources are voltage or current sources whose

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Theorem
output is function of
another parameter in
the circuit.

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Theorems with Circuits
used in Electrical
Engineering Example: 1

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Thevenin's Theorems
Problems With
Solutions

In the network of figure 1, find the current through the 10 resistor utilizing Thevenin ' s Theorem.

Solution: Let the resistance r_4 (10 Ω) be removed and the circuit is exhibited in figure 2.

~~Network Theorems
Problems With
Solutions~~

Network Theorems

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(Part I)-Numerical
Problems Key points: -

The problems considered in this set are involving both dependent and independent sources.

Following points may be noted Dependent sources are voltage or current sources whose output is function of another parameter in the circuit.

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~~Network Theorems (Part I) Numerical Problems~~

Network Theorems
Objective Questions
and Answers Electrical
MCQ Edit Practice
Test: Question Set - 04.

1. The superposition theorem is applicable to
(A) Voltage only (B)
Current only (C) Both
current and voltage (D)

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Theorems

Problems With

Solutions

Current, voltage and power. Correct Answer

2. Superposition

theorem can be applied

only to circuits having ...

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Theorems (Part

I)-Numerical Problems.

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Key points: - The problems considered in this set are involving both dependent and independent sources.

Following points may be noted
Dependent sources are voltage or current sources whose output is function of another parameter in the circuit.

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Theorems

~~Problems With~~

~~Solutions With~~

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Circuit Theory 3a -

Electrical Networks and

Network Theorems

Different kind of

network elements:

Active and passive,

linear and non-linear,

lumped and distributed.

Voltage and current

sources. Superposition

theorem, Thevenin (or

Helmholtz) theorem and

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Theorems
Problems With
Solutions

problems based on
these. Circuit Theory 3b
- More network
theorems, solved
problems

~~Circuit Theory 3b –
More network
theorems, solved
problems ...~~

Step 1 – Verifying the
network element as
linear or non-linear.

From the above figure,

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The V-I characteristics of a network element is a straight line passing through the origin. Hence, it is a Linear element. Step 2 – Verifying the network element as active or passive.

~~Network Theory~~
~~Example Problems~~
~~Tutorialspoint~~

The current through, or
Page 17/64

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Theorems
Problems With
Solutions

voltage across, any element of a network is equal to the algebraic sum of the currents or voltages produced independently by each source. In other words, this theorem allows us to find a solution for a current or voltage using only one source at a time.

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Theorems

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Problems With

Solutions

According to the

Thevenin 's theorem,

any linear bilateral

network irrespective of

its complexities can be

reduced into a

Thevenin 's equivalent

circuit having the

thevenins ' open circuit

voltage V_{th} in series

with the Thevenin

equivalent resistance

R_{th} along with load

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resistance RL .

~~Thevenin theorem,
Thevenin's theorem
solution example ...~~

These fundamental theorems include the basic theorems like Superposition theorem, Tellegen ' s theorem, Norton ' s theorem, Maximum power transfer theorem, and Thevenin ' s theorems.

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Another group of network theorems that are mostly used in the circuit analysis process includes the

Compensation theorem,
Substitution theorem,
Reciprocity theorem,
Millman ' s theorem,
and Miller ' s theorem.

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Theorems
Problems With
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Network Theorems

Unit 1 – DC Network

Theorems 2 Load

changes do not affect
the output current of the
constant current source.

NEW TERMS AND

WORDS constant

current source - a circuit
designed to provide a
fixed current that does

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Theorems

not vary with changes in
load.

Solutions

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Problems and Solutions
- Network Analysis.

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- Transformation
between two Theorems
- Practice Problems
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Thevenin's Theorem
Review General Idea: In
circuit theory,

Th é venin's theorem

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Network

Thevenin's Theorem
Problems With Solutions

for linear electrical networks states that any combination of voltage sources, current sources, and resistors with two terminals is

~~Thevenin 's and
Norton 's Theorems~~
Thevenin 's theorem states that any two terminal linear network or circuit can be represented with an

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Thevenin's Theorem
Problems With Solutions

equivalent network or circuit, which consists of a voltage source in series with a resistor. It is known as Thevenin's equivalent circuit. A linear circuit may contain independent sources, dependent sources, and resistors.

~~Network Theory~~
~~Thevenin's Theorem~~
~~Tutorialspoint~~

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Theorems
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Solutions

Network Theorems
(Thevenin's,
Superposition,
Maximum Power
Transfer etc...) -
Topicwise GATE
Questions on Network
Theory (from 2003))

~~Network Theorems
(Thevenin's,
Superposition,
Maximum Power ...
Superposition Theorem~~

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Thevenin's and

Norton's Theorems •

Thevenin's Theorem

As far as its appearance from outside is concerned, any two terminal network of resistors and energy sources can be replaced by a series combination of an ideal voltage source V_{OC} and a resistor R , where V_{OC} is the open-circuit

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Theorems Problems With Solutions

voltage of the network
and

~~Thevenin 's and
Norton 's Equivalent
Circuits and ...~~

Network theorems, such
as Millman 's,
Superposition,
Thevenin 's, and
Norton 's theorems
provide the framework
necessary for more
specific problem solving

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Theorems
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Solutions

techniques Branch
Current Method The
first and most
straightforward network
analysis technique is
called the branch
current method. In this
method, we assume
directions of currents in
a network, and then
write

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Theorems

Thevenin's Theorem -
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Solutions
Thevenin's theorem

circuit problem solution

easy steps Thevenin

~~Theorem~~ Thevenin

~~Equivalent Circuit~~

~~Thevenin Problems~~

~~Network Theorems~~

~~Network Analysis~~

NETWORK

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MEHTA Thevenin's
Theorem. Example with
solution Norton's
theorem problem
solution Lecture - 34
Network Theorems(1)
Thevenin's Theorem
(Problem 1)
Superposition Theorem
Explained (with
Examples) Thevenin's
Theorem with
Dependent Sources
Introduction to Network

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Theorems

Theorems The

Thevenin Equivalent

Circuit Thevenin's

theorem - Example

Circuits 1 - Thevenin

and Norton Equivalents

Thevenin's equivalent

with dependent and

independent sources

Problem 5.53

Superposition Theorem

with example Electrical

Engineering: Ch 4:

Circuit Theorems (16 of

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35) Thevenin's
Theorem Ex. 1

Thevenin and Norton
Equivalent Circuit

Thevenin's theorem
with dependent source
Superposition Theorem

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35) Thevenin's
Theorem Defined
numerical on

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Superposition

Theorem# Network

Theorems# Network

Theory 3. 8 solved

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Lecture 51: Network
Theorem - I

~~Superposition Theorem
with Dependent Sources~~

~~Superposition Theorem~~

~~Network Theorems |~~

~~Part 1 | Important~~

~~GATE Questions |~~

~~Network Theory Lec 10~~

~~GATE Ques Solved~~

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~~From Network
Theorem Network
Theorems Problems
With Solutions~~

Network Theorems
Problems With
Solutions Network
Theorems (Part
I)-Numerical Problems
Key points: - The
problems considered in
this set are involving
both dependent and
independent sources.

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Theorems
Problems With
Solutions

Following points may be noted Dependent sources are voltage or current sources whose output is function of another parameter in the circuit.

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Theorems with Circuits
used in Electrical
Engineering Example: 1
In the network of figure
1, find the current
through the 10
resistor utilizing
Thevenin ' s Theorem.
Solution: Let the
resistance r_4 (10 Ω) be
removed and the circuit
is exhibited in figure 2.

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Network Theorems
(Part I)-Numerical
Problems Key points: -
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considered in this set are
involving both
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independent sources.
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Problems~~

Network Theorems
Objective Questions
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Test: Question Set - 04.
1. The superposition

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theorem is applicable to

(A) Voltage only (B)

Current only (C) Both

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Current, voltage and

power. Correct Answer

2. Superposition

theorem can be applied

only to circuits having ...

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Key points: - The problems considered in this set are involving both dependent and independent sources.

Following points may be noted Dependent sources are voltage or current sources whose output is function of

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the circuit.

Problems With

Solutions

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Circuit Theory 3a -

Electrical Networks and

Network Theorems

Different kind of

network elements:

Active and passive,

linear and non-linear,

lumped and distributed.

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Voltage and current sources. Superposition theorem, Thevenin (or Helmholtz) theorem and problems based on these. Circuit Theory 3b - More network theorems, solved problems

~~Circuit Theory 3b -~~

~~More network~~

~~theorems, solved~~

~~problems ...~~

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Theorems
Problems With
Solutions

Step 1 – Verifying the network element as linear or non-linear.

From the above figure, the V-I characteristics of a network element is a straight line passing through the origin.

Hence, it is a Linear element. Step 2 – Verifying the network element as active or passive.

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~~Theorems~~
~~Network Theory~~
~~Example Problems~~
~~Solutions~~
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The current through, or voltage across, any element of a network is equal to the algebraic sum of the currents or voltages produced independently by each source. In other words, this theorem allows us to find a solution for a current or voltage using

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Problems With
Solutions

only one source at a
time.

~~Network Theorems~~
Pearson

According to the
Thevenin ' s theorem,
any linear bilateral
network irrespective of
its complexities can be
reduced into a
Thevenin ' s equivalent
circuit having the
thevenins ' open circuit

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Solutions

voltage V_{th} in series with the Thevenin equivalent resistance R_{th} along with load resistance R_L .

~~Thevenin theorem,~~

~~Thevenin's theorem~~

~~solution example ...~~

These fundamental theorems include the basic theorems like Superposition theorem, Tellegen ' s theorem,

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Thevenin's theorem, Norton's theorem, Maximum power transfer theorem, and Thevenin's theorems.

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~~Theorems 2 Load~~

~~changes do not affect~~

~~the output current of the~~

~~constant current source.~~

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~~Solutions~~

WORDS constant current source - a circuit designed to provide a fixed current that does not vary with changes in load.

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Superposition Theorem
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Thevenin's Theorem
Review General Idea: In
circuit theory,

Th é venin's theorem
for linear electrical
networks states that any
combination of voltage
sources, current sources,
and resistors with two
terminals is

~~Thevenin ' s and
Norton ' s Theorems~~
Thevenin ' s theorem

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Thevenin's theorem states that any two terminal linear network or circuit can be represented with an equivalent network or circuit, which consists of a voltage source in series with a resistor. It is known as Thevenin's equivalent circuit. A linear circuit may contain independent sources, dependent sources, and resistors.

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(Thevenin's,

Superposition,

Maximum Power ...

Superposition Theorem

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Th é venin ' s Theorem

As far as its appearance

from outside is

concerned, any two

terminal network of

resistors and energy s

ources can be replaced

by a series combination

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Thevenin's and Norton's Equivalent Circuits and ...
of an ideal voltage source V_{OC} and a resistor R , where V_{OC} is the open-circuit voltage of the network and

~~Thevenin's and Norton's Equivalent Circuits and ...~~
Network theorems, such as Millman's, Superposition, Thevenin's, and

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Theorems

Norton ' s theorems
provide the framework

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Current Method The

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