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~~Dependent Source~~

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Mesh Analysis
With Dependent
Sources

The
comprehension of
mesh analysis
with dependent
sources is

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important when
planning
circuits that
utilize

amplifiers or
amplifying
components. The
methods are
nearly the same
as without
dependent
sources except
that more
information

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needs to be
presented to
achieve a
solution.

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Sources Exactly
analogous to
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Dependent

Voltage Source:

(1) Formulate
and write KVL
mesh eqns.

Understanding
Linear Dependent

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Controls What
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134. Example: 8
Using mesh

analysis, find
the magnitude of
the current
dependent source
(figure 11) and
the current
through the 2Ω
resistor. ...

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Sources Solved
Current Source
Problems

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Section 18 -
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Sources ...

Value of
dependent source

Thus, the
magnitude of the
dependent source

= 1.45V. The
magnitude of the
actual current i

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which, as found out, is upwards in the circuit, the actual polarity of dependent source is opposite to that shown. The current through 2Ω resistor is i_2 i.e., $0.183A$ flowing anticlockwise in loop-2.

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Mesh Analysis Ex
ample-Everything
Part 1 - YouTube
Super Mesh is a
mesh when a
current source
is contained

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between two meshes, and Dependent sources is a source which is dependent on another source. When a circuit or mesh contains these two special cases applying Mesh Analysis method requires special

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considerations.
To apply Mesh
Analysis Method
in Super Mesh:
We should create
a single
equation for
both the
adjacent meshes
incorporating
the current
source , and the
current source
should be

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related to the
mesh current of
the two meshes.
For ...

Mesh Analysis (Loop Current Method)

You can analyze circuits with dependent sources using node-voltage

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Problems

analysis, source transformation, and the Thévenin technique, among

others. For analyzing circuits that have dependent sources, each technique has particular advantages.

Utilize node-voltage analysis

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Analyze Circuits
with Dependent
Sources -
dummies

Find the value
of i in the
circuit below
using mesh

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analysis. The first thing you should notice about this

circuit is that there are two different types of sources: a dependent source (the arrow in the diamond), and an independent source (the

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arrow in the circle). Independent sources are independent of the circuit—so that source will always push 15 A of current into the circuit, regardless of the circuit elements.

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Advantage of
Mesh Current
Analysis. The
primary
advantage of
Mesh Current
analysis is that
it generally
allows for the
solution of a

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large network
with fewer
unknown values
and fewer

simultaneous
equations. Our
example problem
took three
equations to
solve the Branch
Current method
and only two
equations using
the Mesh Current

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Method and
Analysis | DC
Network Analysis

...

Loop (Mesh
Analysis):
☐ Independent
Sources and
relating
problems,

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A Super Mesh
Circuit Analysis
is constituted
by two adjacent

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loops that have
a common current
source. As an
example,

consider the
network shown in
Fig. 2.32. Here,
the current
source I is in
the common
boundary for the
two meshes 1 and
2. This current
source creates a

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supermesh, which is nothing but a combination of meshes 1 and 2.

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Download Free Mesh Analysis at: <http://www.MathTutorDVD.com>. Sources Solved Problems

Lesson 14 -
Solving Circuits
With Dependent
Current ...

A dependent
source is a
current source
or voltage
source that
depends on the

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voltage or current of another element in the circuit.

When a dependent source is contained within an essential mesh, the dependent source should be treated like an independent source. After

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the mesh
equation is
formed, a
dependent source
equation is
needed.

Mesh analysis -
Wikipedia

A dependent
source is a
current or
voltage source

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whose value is not fixed (i.e., independent) but rather which

depends on some other circuit current or voltage. The general form for the value of a dependent source is $(Y = kX)$ where (X) and (Y) are

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currents and/or voltages and k is the proportionality factor.

7.4: Dependent Sources - Engineering LibreTexts

Then to find V_{Th} , use mesh analysis with

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all independent/
dependent
Sources Solved
Problems
and solve for

the open circuit
voltage. $R_{Th} =$
 1 V I_o

[Equation 1] R_{Th}
 $h = 1 \text{ V}$ I_o

[Equation 1] Now
to apply this
theory to an
example problem.

Figure 2

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