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***circuit terminology article khan academy* Nov 18 2022 web written by
willy mcallister we are developing methods for analyzing a circuit so
far we ve defined the most common components resistor capacitor and
inductor and sources voltage and current now we need a crisp
vocabulary to talk about circuits this article is a glossary of terms and
concepts we use in circuit analysis and design circuit**

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term linearity refers to the property of scaling suppose you have two
related physical properties for example the speed you can run and the
distance you can run if you double your speed you double the distance
if you triple your speed you triple your distance this is called a linear
relationship**

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2022 we will use three physical quantities in our analysis of electrical
circuits current voltage and resistance current is the flow of electrical
charge from one place to another electrons flowing through a wire or
through some other electronic device comprise a current voltage is a
difference in electric potential that makes electrons flow**

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the circuit shown in figure pageindex 1 use superposition to find v_b
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superposition to find the current through the capacitor 3 use
superposition to find the current through the 82 Ω resistor
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that there are two types of analysis mesh analysis which revolves
around current loops and node analysis which revolves around the
aforementioned nodes typically circuit analysis programs spice use the
node analysis method
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2022 web detailed description we start by explaining what voltage
current and resistance mean in the context of a circuit once this is
mastered we explain the circuit symbols and illustrate these with
simple circuits ohm s law is covered next which is absolutely essential
in circuit theory after that
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circuit analysis electrical engineering science khan Aug 27 2023 web circuit analysis is the process of finding all the currents and voltages in a network of connected components we look at the basic elements used to build circuits and find out what happens when elements are connected together into a circuit