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a circuit is an unbroken loop of conductive material that allows charge carriers to flow through continuously without beginning or end if a circuit is broken that means its conductive elements no longer form a complete path and continuous charge flow cannot occur in it

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an electric circuit includes a device that gives energy to the charged particles constituting the current such as a battery or a generator devices that use current such as lamps electric motors or computers and the connecting wires or transmission lines

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a basic electrical circuit consists of three main components a source of voltage a load and conductors in figure 1 a basic circuit is illustrated

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an electric circuit involves the flow of charge in a complete conducting loop when here is an electric circuit light bulbs light motors run and a compass needle placed near a wire in the circuit will undergo a deflection

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the flow of charge through electric circuits is discussed in detail the variables which cause and hinder the rate of charge flow are explained and the mathematical application of electrical principles to series parallel and combination circuits is presented

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dc circuit and electrical power review review the components of a circuit and their symbols such as battery resistor and switch analyze how the power of a resistor is related to the current and electric potential difference across the resistor

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an electric circuit is capable of transferring power current is the rate of flow of charge and voltage measures the energy transferred per unit of charge we can insert these definitions into the equation for power

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in this section we introduce steady state electric charge flow and make multiple analogies with fluid flow we start by introducing the idea of a circuit where a fluid or charge returns to its

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one of the first things you'll encounter when learning about electronics is the concept of a circuit this tutorial will explain what a circuit is as well as discuss voltage in further detail a simple circuit involving a button an led and a resistor built two different ways

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in this last chapter for this course we analyze basic electric circuits using ohm's law and later kirchoff's laws in series parallel and combined resistor arrangements while there are a number of circuit symbols are used in circuit diagrams

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there are two basic types of electric circuits direct current dc and alternating current ac most of the electronic devices we will work with use dc but the power grid and outlets in your house are ac

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a circuit is a closed loop that allows charge to move from one place to another components in the circuit allow us to control this charge and use it to do work georg ohm was a bavarian scientist who studied electricity ohm starts by describing a unit of resistance that is defined by current and voltage

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electric circuits most practical applications of electricity involve the flow of electric current in a closed path under the influence of a driving voltage analogous to the flow in a water circuit under the influence of a driving pressure

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electrical engineering definition of current flow direction kirchhoff s current law kirchhoff s current law abbreviated kcl states that the total current entering a node is equal to the total current exiting a node kcl allows us to use known currents to determine an unknown current

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the three most important passive elements are the resistor releases energy into the air by heat the capacitor stores energy electrically and the inductor stores energy magnetically these elements are often used in control system equivalent circuits

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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

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a circuit is the path that an electric current travels on and a simple circuit contains three components necessary to have a functioning electric circuit namely a source of voltage a conductive path and a resistor circuits are driven by flows flows are ubiquitous in nature and are often the result of spatial differences in potential energy

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in our exploration of the world of electric circuits we start with building the essential foundations of circuits learning the fundamental terms and concepts related to electricity paving the way to comprehend the underlying principles governing circuits

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understand kirchhoff rules and how to apply them understand how to model a circuit with resistors and or capacitors understand how an ammeter and voltmeter function and how to model them in this chapter we develop the tools to model electric circuits

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