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through the circuit called a fuse an electric fuse is used as a safety device that protects electric circuits and appliances due to fluctuation short circuiting or overloading of the electric circuits fuse offers high resistance to voltage and has a low melting point

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ans electric circuits can be classified depending upon the number of paths they provide for the current to flow there are two such types of electric circuits namely series circuits and parallel circuits electric circuits can also be classified as open circuit and closed circuit depending upon their ability to allow the flow of current

electric field wikipedia May 22 2022 the electric field is defined at each point in space as the force per unit charge that would be experienced by a vanishingly small positive test charge if held stationary at that point 469 70 as the electric field is defined in terms of force and force is a vector i e having both magnitude and direction it follows that an electric field is a vector field

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power p is equal to the energy consumption e divided by the consumption time t p is the electric power in watt w e is the energy consumption in joule j t is the time in seconds s example find the electric power of an electrical circuit that consumes 120 joules for 20 seconds solution $e = 120j$

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function of the level of noise the greater the noise level

electric charge wikipedia Jun 23 2022 electric charge is the physical property of matter that causes charged matter to experience a force when placed in an electromagnetic field electric charge can be positive or negative commonly carried by protons and electrons respectively like charges repel each other and unlike charges attract each other an object with an absence of net charge is referred to as

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direct current wikipedia Nov 16 2021 direct current dc is one directional flow of electric charge an electrochemical cell is a prime example of dc power direct current may flow through a conductor such as a wire but can also flow through semiconductors insulators or even through a vacuum as in electron or ion beams the electric current flows in a constant direction

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complex number arithmetic the complex approach is actually simpler for series parallel combination circuits and it yields richer more informative results

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electrical principles to series parallel and combination circuits is presented

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usb wikipedia Sep 21 2019 overview usb was designed to standardize the connection of peripherals to personal computers both to communicate with and to supply electric power it has largely replaced interfaces such as serial ports and parallel ports and has become commonplace on a wide range of devices

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examples of peripherals that are connected via usb include computer keyboards and *matrices applied to electric circuits analyzemat.com* Oct 15 2021 a tutorial on how mathematics matrices in particular are applied to model electric circuits there are two closed loops in the above circuit loop 1 $e_1 r_1$ and r_3 and loop 2 $e_2 r_2$ and r_3 e_1 and e_2 are sources of voltages $r_1 r_2$ and r_3 are resistors i_1 is the current flowing across r_1 and i_2 is the current flowing across r_2

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ohm wikipedia Jun 18 2019 in alternating current circuits electrical impedance is also measured in ohms conversions the siemens symbol s is the si derived unit of electric

conductance and admittance also known as the mho ohm spelled backwards symbol is it is the reciprocal of resistance in ohms Ω power as a function of resistance

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09 2020 the best long term solution however is to have an electrician update your home s wiring to add additional circuits in your situation having a separate circuit to handle the part of the