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voltage also known as electric pressure electric tension or electric potential difference is the difference in electric potential between two points in a static electric field it corresponds to the work needed per unit of charge to move a test charge between the two points in the international system of units the derived unit for voltage is named volt voltage is the pressure from an electrical circuit s power source that pushes charged electrons current through a conducting loop enabling them to do work such as illuminating a light in brief voltage pressure and it is measured in volts v the term recognizes italian physicist alessandro volta 1745 1827 inventor of the voltaic pile the forerunner of today s household oct 1 2022 the symbol for volt is v simplified this means that voltage compared to water pressure through pipes is the speed of the electrons as they pass a point within the circuit tip like watts a word derived from the english inventor james watt volts is named after another inventor italian alessandro volta voltage is represented in equations and schematics by the letter v when describing voltage current and resistance a common analogy is a water tank in this analogy charge is represented by the water amount voltage is represented by the water pressure and current is represented by the water flow so for this analogy remember water charge volts are the unit of measure for electrical voltage and are represented by the letter v in electrical equations voltage is the difference in electrical potential or the number of electrons between any two points in an electrical circuit in our water analogy voltage is apr 25 2021 voltage also known as electric potential difference electromotive force emf electric pressure or electric tension is defined as the electric potential difference per unit charge between two points in an electric field voltage is expressed mathematically e g in formulas using the symbol v or e jan 28 2019 voltage is a representation of the electric potential energy per unit charge if a unit of electrical charge were placed in a location the voltage indicates the potential energy of it at that point in other words it is a measurement of the energy contained within an electric field or an electric circuit at a given point it is equal to the work that would have to be done per unit voltage can be described in numerous ways but the most popular voltage definition is that voltage is the total work required to move a unit of charge between two points in a static electric field voltage is also referred to as electric potential difference electric pressure or electric tension in this article let us learn more about voltage definition si unit of voltage and other what is voltage voltage describes the pressure that pushes electricity the amount of voltage is indicated by a unit known as the volt v and higher voltages cause more electricity to flow to an electronic device however electronic devices are designed to operate at specific voltages excessive voltage can damage their circuitry jan 10 2023 voltage noun volt age 'vōl tij 1 electric potential or potential difference expressed in volts 2 intensity of feeling example sentences we measured the change in voltage across

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