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Question: n the above image, the capacitor is charged fully prior to time t = 0. At t = 0, the switch is flipped, breaking the connection to the battery. After t = 0, the capacitor discharges through R2. If R1 = 11,309 ohms, R2 = 18,344 ohms, C1 = 12 millifarads, and Vs = 16 volts, how long will it take for the capacitor to fully discharge ...

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If this is the graph of charging a fully discharged capacitor and discharging a fully charged capacitor: ... The next image shows an example. Vc (= the green curve) starts from Vo = 3 volts and approaches V1 = 10 volts. The time constant RC is 5 seconds : The dotted lines show a practical drawing help. A line which continues with the initial growth rate reaches the ...

When the capacitor voltage equals the battery voltage, there is no potential difference, the current stops flowing, and the capacitor is fully charged. If the voltage increases, further migration of electrons from the positive to negative plate results in a greater charge and a higher voltage across the capacitor. Image used courtesy of Adobe Stock

A circuit with a charged capacitor has an electric fringe field inside the wire. This field creates an electron current. The electron current will move opposite the direction of the electric field. However, so long as the electron current is running, the capacitor is being discharged. The electron current is moving negative charges away from the negatively ...

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