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Circuit Breaker Keeps Tripping; If your circuit breaker keeps on tripping, chances are they have detected some issues in the current circuit. That is where they get the name 'circuit breakers' because they break up circuits when they sense that there is something wrong with the flow of current. Solution

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A circuit breaker in series before the parallel branches can prevent overloads by automatically opening the circuit. A 15 A circuit operating at 120 V consumes 1,800 W of total power. $P = VI = (120 \text{ V})(15 \text{ A}) = 1,800 \text{ W}$. Total power in a parallel circuit is the sum of the power consumed on the individual branches.

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Solution: Let the terminal a-b be open circuited. This leads to $I_1 = 0$ and the depending voltage sources $2I_1$ is also zero. Also, $I_2 = 0$. Obviously $V_{o.c}$ (i.e., the open circuit voltage across a-b) is zero. Next, a dc voltage supply v_{dc} be applied across a-b such that the input current be I_1 at terminal a.

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Sheet (2) Magnetic circuits Solution

Electrical-engineering and electronic-engineering students have frequently to resolve and simplify quite complex circuits in order to understand them or to obtain numerical results and a sound knowledge of basic circuit theory is therefore essential. The author is very much in favour of tutorials and the solving of problems as a method of ...

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Example: 1 Using mesh analysis, obtain the current through the 10V battery for the circuit shown in figure 1. Solution: The current source is first converted to an equivalent voltage source and the loop currents are named (Figure 2).

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Solution : The conditions of the problem suggest that diode D1 is forward biased and diode D2 is reverse biased. We can, therefore, consider the branch containing diode D2 as open as shown in Fig. 4 (ii). Further, diode D1 can be replaced by its simplified equivalent circuit. Q5. Find the voltage V A in the circuit

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Problem Find and : Solution Three resistors are in series and their equivalent, , is parallel with the voltage source. So, according to

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