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Solutions For Circuit Theory And

Solutions to the problems in Circuit Theory 1. We have the circuit on the right, with a driving voltage $U_S = 5\text{ V}$, and we want to know U and I . a. $R = 1000\ \Omega$; the total resistance in the circuit is then $R_{\text{tot}} = 1010\ \Omega$, and we can use Ohm's law to find $I = U_S/R_{\text{tot}} = 5/1010\text{ A} = 4.95\text{ mA}$ and $U = RI = 4.95\text{ V}$. b.

Solutions to the problems in Circuit Theory

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the open circuit or "off" state conduction is interrupted. 26. The most important difference between the characteristics of a diode and a simple switch is that the switch, being mechanical, is capable of conducting current in either direction while the diode only allows charge to flow through the element in one direction (specifically the

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The current in an inductive circuit is given by $0.3 \sin(200t - 40^\circ)\text{ A}$. Write the equation for the voltage across it if the inductance is 40 mH . Solution. $L = 40 \times 10^{-3}\text{ H}$; $i = 0.1 \sin(200t - 40^\circ)\text{ A}$ $X_L = \omega L = 200 \times 40 \times 10^{-3} = 8\ \Omega$. $V_m = I_m X_L = 0.3 \times 8 = 2.4\text{ V}$. In an inductive circuit, the voltage leads the current by 90° Therefore,

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Electrical Circuit Theory and Technology

In other words , the linear circuit looking into terminals a-b can be replaced by an equivalent circuit consisting of a voltage source V_{TH} in series with an equivalent resistance R_{TH} , where V_{TH} is the open circuit voltage V_n and $R_{TH} = \Delta / I_n$. 4.7 Thevenin's Theorem C.T. Pan 31 4.7 Thevenin's Theorem Example 4.7.1 C.T. Pan 32 1 4 Ω 1 6 ...

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