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My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

1. What does the expression $\frac{1}{2} \vec{J} \cdot \vec{A}$ represent ?
(a) Power density
(b) Radiation resistance
(c) Magnetic energy density
(d) Electric energy density

2. Consider the following statements :
In an n-type semiconductor
1. Fermi level lies below the donor level at room temperature (RT)
2. Fermi level lies above the donor level as $T \rightarrow 0$.
3. Fermi level lies in valence band.
4. Fermi level remains invariant with temperature.
Which of the above statements is/are correct ?
(a) 1 only
(b) 1 and 2 only
(c) 2, 3 and 4
(d) 1, 2 and 3

3.
For the circuit as shown above, if the current lags the applied voltage by $\tan^{-1} 2$, what is the resistance value in ohm ?
(a) 0.5
(b) 10
(c) 20
(d) 9.5

4. The dead zone in a pyrometer is 0.125 percent of the span. The instrument is calibrated from 500°C to 2000°C. What temperature change must occur before it can be detected in degree Centigrade ?
(a) 187.5
(b) 1875
(c) 18.75
(d) 0.1875

5.
Consider the following equations with respect to the above network :
1. $L_1 \frac{di_1(t)}{dt} = R_1 i_1(t) - v_1(t) + v(t)$
2. $L_2 \frac{di_2(t)}{dt} = -R_2 i_2(t) - v_2(t) + v(t)$
3. $L_2 \frac{di_2(t)}{dt} = -R_2 i_2(t) + v_2(t)$
4. $C \frac{dv_2(t)}{dt} = i_2(t) - i_1(t)$
Which of the above statements is/are correct ?
(a) 1 only
(b) 2, 3 and 4
(c) 1, 3 and 4
(d) 1, 2 and 4

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