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#Diego Butler



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

1. What does the expression  $\frac{1}{2} I^2 R$  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) 1875  
(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.  $L_3 \frac{di_3(t)}{dt} = -R_3 i_3(t) + v_3(t)$   
4.  $C \frac{dv_3(t)}{dt} = i_1(t) - i_2(t)$   
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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