

of 120 Hz in a magnetic field 0.1 T. Calculate the peak value of the induced emf  
226.2V

[SED323] Appearance of ----- could easily be obtained by ion fillings  
Magnetic field

[SED323] A 0.96H coil carries a current of 8.0A. Calculate the energy stored in it  
30.7J

[SED323] Magnetic field is a region in which a particle with magnetic properties or  
moving charges experiences  
force

[SED323] A coil of inductance 2.0H and resistance  $5\Omega$  is connected to a 30V  
battery. Calculate the rate of current growth in the coil when the circuit has just been  
made and when the current reaches one-half of its steady-state value.  
15A/s and 7.5A/s

[SED323] Which of the following is NOT correct about x-ray spectra?  
The K-series x-rays are less penetrating than the L-series x-rays

[SED323] A rectangular wire loop of width 4.0cm is being pulled out of a magnetic field  
at a constant speed of 2.0m/s. The magnetic field is 0.30T and is uniform in the region,  
perpendicular and into the plane of the loop. What is the induced emf in the loop?  
0.024V

[SED323] represented by lines of force that emerge from the north seeking magnetic  
pole and enter south seeking magnetic pole  
Magnetic field

[SED323] A 1000-turn solenoid of length 20cm has a cross-sectional area of 2.0 square  
centimetre. Find the inductance of the coil if the core is air.  
 $1.26 \times 10^{-3} \text{H}$

[SED323] The direction of field on a current carrying conductor is determined using  
cork screw rule

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