Magnetic Energy Questions

Equation: $\mathbf{U = \frac{1}{2} LI^2}$

U = Magnetic energy stored (J),

L = Inductance (H), I = Current (A)

1. A solenoid has an inductance of 2 H and carries a current of 3 A. Calculate the magnetic energy stored.

2. A coil with an inductance of 0.5 H has a current of 4 A flowing through it. What is the stored magnetic energy?

3. A solenoid with an inductance of 1.5 H carries a current of 2 A. Find the energy stored.

4. A 3 H inductor has a current of 1.5 A. Calculate the magnetic energy stored.

5. A coil has an inductance of 0.8 H and a current of 5 A. What is the magnetic energy stored?

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6. A solenoid has an inductance of 1.2 H and a current of 2.5 A. Find the magnetic energy stored.

7. A coil with 0.3 H inductance carries 3 A of current. What is the energy stored?

8. A solenoid has an inductance of 2.5 H and carries a current of 1.2 A. Calculate the magnetic energy stored.

9. A 1 H coil carries a current of 4.5 A. What is the energy stored in the magnetic field?

10. A solenoid with 0.9 H inductance has a current of 3.5 A. Find the magnetic energy stored.

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