

30.7. At the instant when the current in an inductor is increasing at a rate of 0.0640 A/s , the magnitude of the self-induced emf is 0.0160 V . (a) What is the inductance of the inductor? (b) If the inductor is a solenoid with 400 turns, what is the average magnetic flux through each turn when the current is 0.720 A ?