Bs MH = MoMr H = MoMr n I Plux e- 0 = BA = NoMonIA = MOMO (N) AI $L = \frac{N\Phi}{I} = \frac{N^2}{\ell^2} \frac{M_0 M_1 A E}{E} = n^2 M_0 M_1 A \ell$ Sinchictence :. L = n2 M. Mr Vcore $= 1.23 \times 10^{-4} H$ $B = 4\pi * 16^{-7} * 1 * \left(\frac{500}{0.2}\right) * \frac{1}{4} = 3.4 * 10^{-3} T$ when using core with 11 = 600 L = ,0738 H } much Higher Total field!
B = 1.88 T More energy is stored since Energy is Es B2 where B is total field (external + induced)