$$0 \text{ 2 coils } \text{ w/ } M = 3.25 \times 10^{-4} \text{ [H]}$$

 $\frac{dI_{i}}{dt} = 880 \text{ [A/s]}$

a)
$$|\xi_1| = M \frac{dL_1}{dt}$$

$$\Rightarrow \left| \xi_2 \right| = \boxed{3.25 \times 10^{-4} \times 880 \text{ [V]}}$$

b) sys.
$$\frac{dT_2}{dt} = 880$$
 [Als]

$$|\xi_1| = M \frac{dI_2}{dt} = \int 3.25 \times 10^{-4} \times 880 \text{ [V]}$$

②
$$T \sim O[K]$$
 $B_c \rightarrow 0.142 [T]$ Vanadium $(T)^T_c): \chi_m \sim 0$

 $\underbrace{\mathcal{N}_{in}}_{B_{in}} = N_{o} \overrightarrow{M} \qquad \Longrightarrow \overrightarrow{M} = \underbrace{B_{in}}_{N_{o}}$

$$\overline{\overrightarrow{B}_{in}} = -0.13 \,\widehat{i} \quad [T] \qquad \overline{\overrightarrow{B}_{out}} = 0$$

$$\overline{\overrightarrow{M}} = -\frac{.17}{\cancel{M}_o} \,\widehat{i} \qquad \boxed{}$$

$$\overrightarrow{b_{in}} = O[\tau] \overrightarrow{b_{out}} = .26 \hat{1} [\tau]$$

$$\overrightarrow{M} = 0$$