

69. (a) Eq. 31-67 yields

$$M = \frac{\mathcal{E}_1}{|di_2/dt|} = \frac{25.0 \text{ mV}}{15.0 \text{ A/s}} = 1.67 \text{ mH} .$$

(b) Eq. 31-62 leads to

$$N_2\Phi_{21} = Mi_1 = (1.67 \text{ mH})(3.60 \text{ A}) = 6.00 \text{ mWb} .$$