















Generally : Moving impedance from secondary to primary multiply by a<sup>2</sup>. Moving from primary to secondary, divide by a<sup>2</sup>.

 $Z_p = Z_s \cdot a^2$   $\frac{Z_p}{a^2} = Z_s$ 

$$E_{p} = a \cdot E_{s} \qquad I_{p} = \frac{s}{a}$$

$$Z_{load} = \frac{E_{p}}{I_{p}} = \frac{a \cdot E_{s}}{\frac{I_{s}}{a}} = (a \cdot E_{s}) \left(\frac{a}{I_{s}}\right) = a^{2} \cdot \left(\frac{E_{s}}{I_{s}}\right)$$

$$Z_{load} = Z_{in} \cdot a^{2} \implies \frac{Z_{load}}{a^{2}} = Z_{in}$$

Lesson 8\_et332b.pptx







































