## 技術系専門試験問題演習講座 一般職 電気

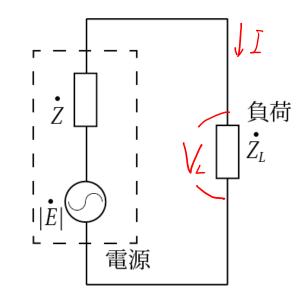
H.12 国家II種 電気電子情報職 No.22 (電気工学)

電源電圧を目=Eとする。
$$P = V_L \hat{I} = Z_L \hat{I} \hat{I}$$

$$= Z_L |\hat{I}|^2$$

$$222 = \frac{E}{2+2} \tau_{0}$$

$$\overline{P} = \frac{1}{2L} \left| \frac{E}{2 + \frac{1}{2}L} \right|^2 = \frac{1}{2L} \frac{E^2}{|R+R_L+j(x+X_L)|^2} = \frac{E^2(R_L+jX_L)}{(R+R_L)^2 + (x+X_L)^2}$$



$$2=a+jb \rightarrow |Z|^2=a^2+b^2$$

$$\frac{1}{\sqrt{2}} = \frac{E^2(R_L+jX_L)}{(R+R_L)^2+(x+X_L)^2}$$

实数结路202

$$P = \frac{E^{2}RL}{(R+RL)^{2} + (X+XL)^{2}}$$

$$P = \frac{E^{2}RL}{(R+RL)^{2}} = \frac{E^{2}RL}{R^{2} + R^{2} + 2R}$$

$$= \frac{E^{2}RL}{R^{2} + RL} = \frac{E^{2}}{4R}$$

$$= \frac{E^{2}RL}{R^{2} + RL} = \frac{E^{2}}{4R}$$

$$= 1 T R^{2} = RL \rightarrow RL = R_{1} \Rightarrow RL = R_{1} \Rightarrow RL = R_{2}$$

の分回の形では 「RL=R 1 XL=-X で有なな電力が最大

