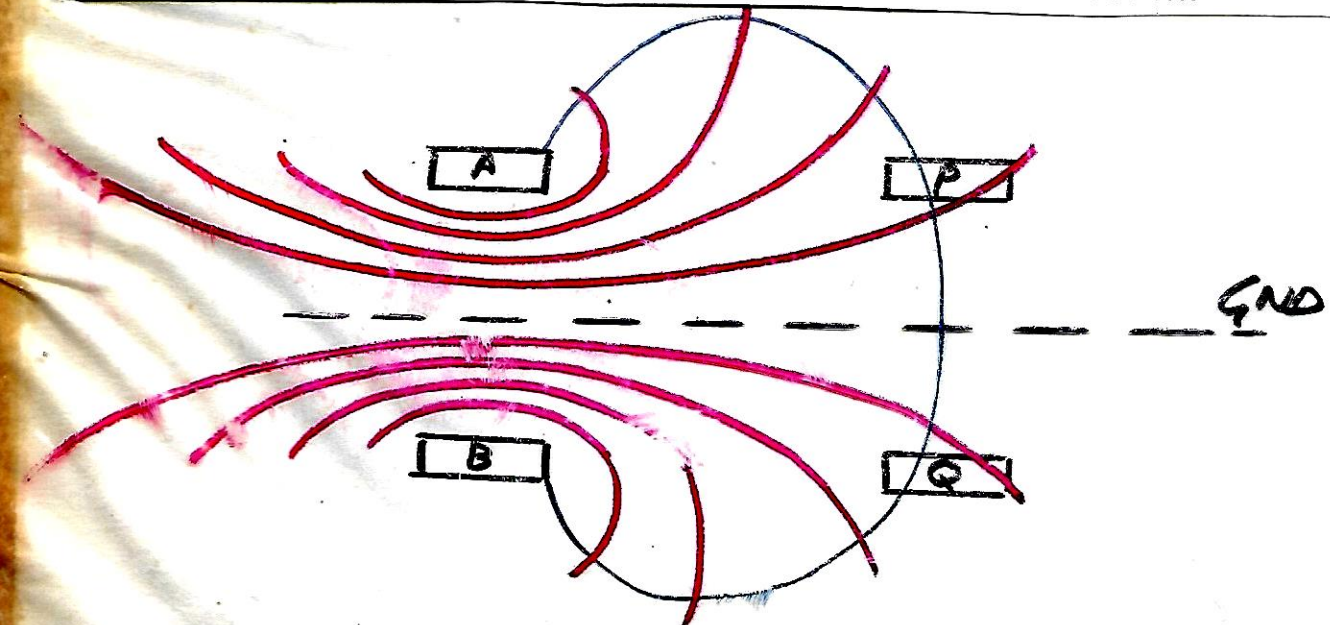
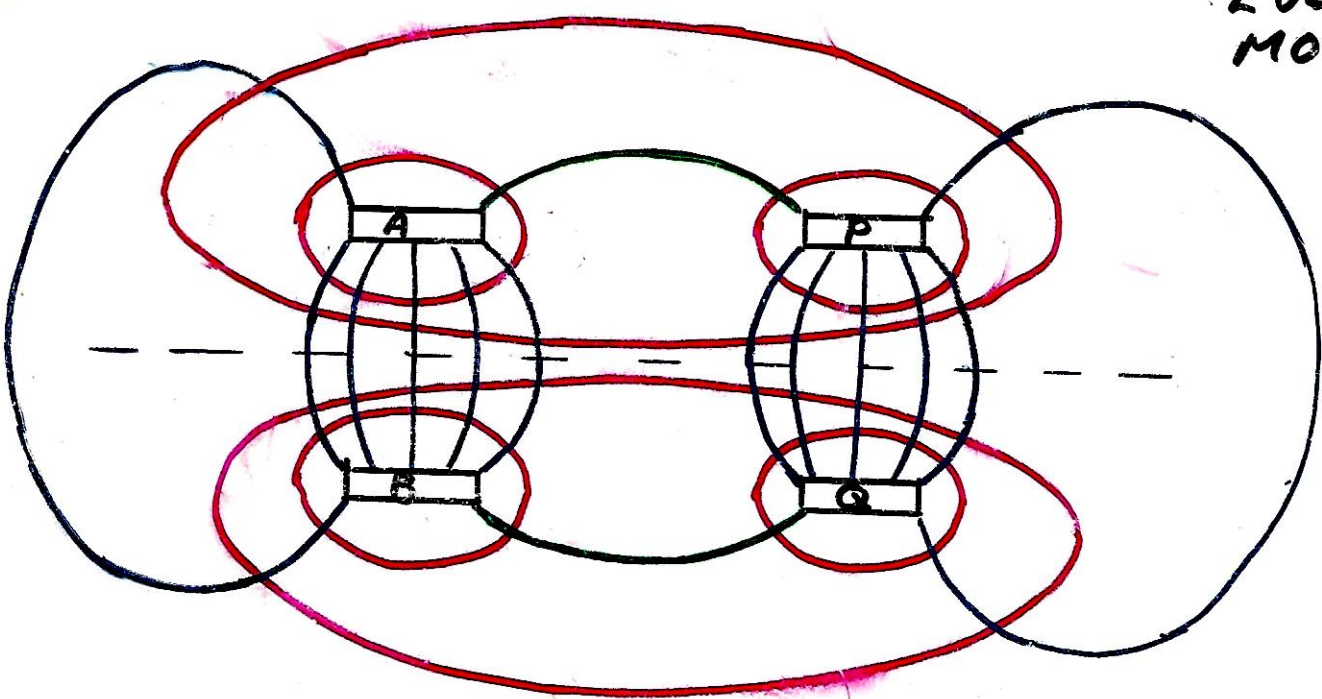


<http://www.ivorcatt.co.uk/x147.pdf>

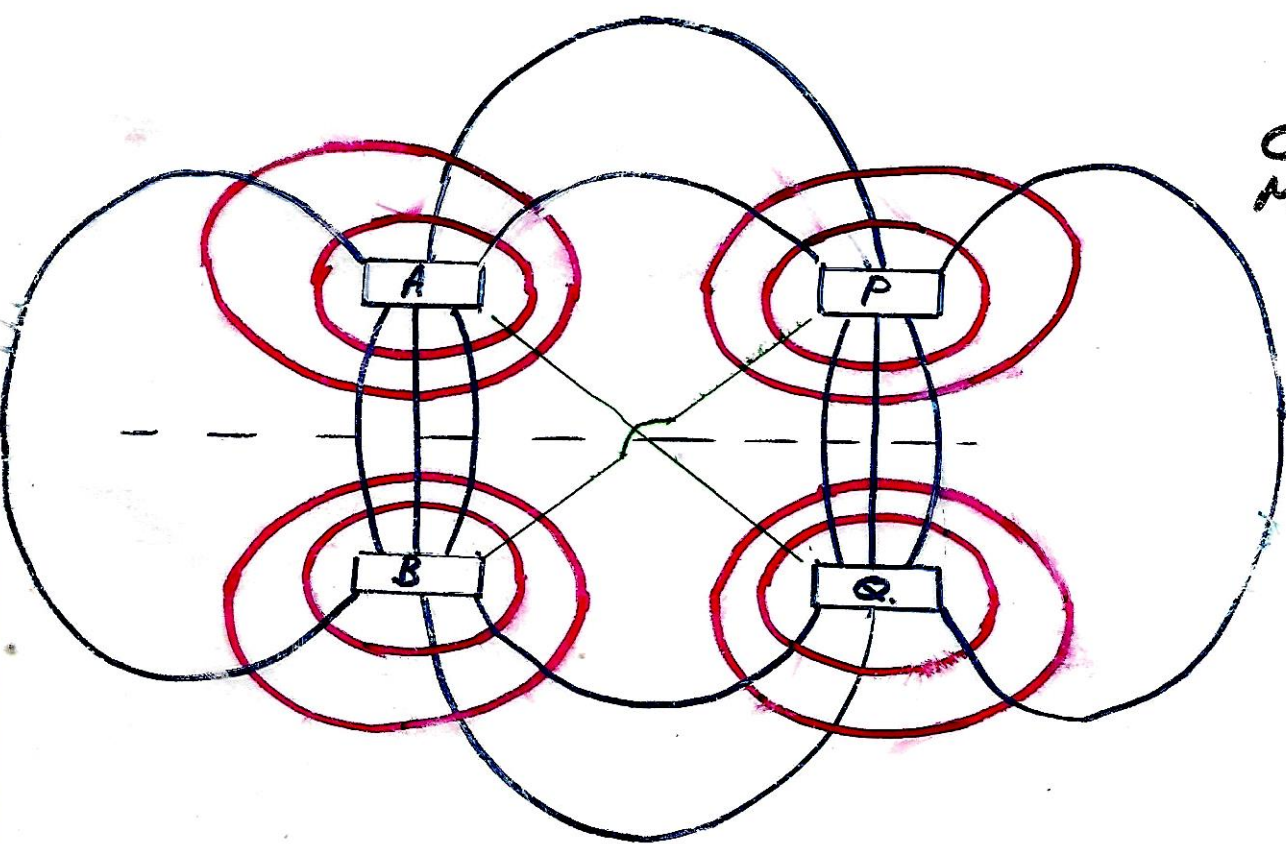
<http://www.ivorcatt.org/x0313.jpg> p745 "It is not possible for a current voltage signal to travel from A_1G_1 to A_2G_2 and leave the line P_1P_2 unaffected. Two fundamental TEM modes can exist Even Mode Odd Mode"

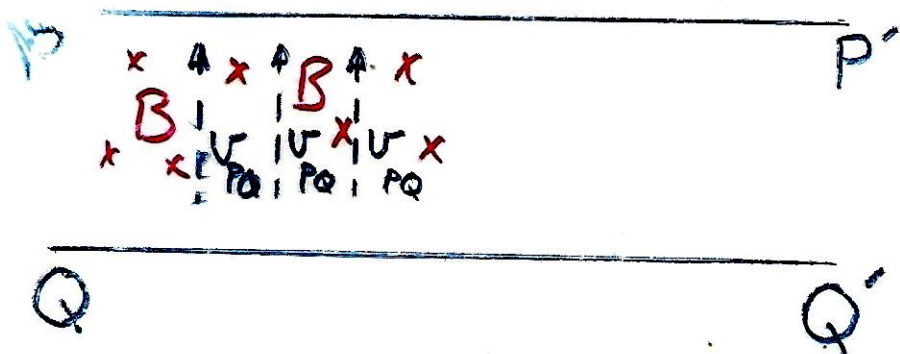
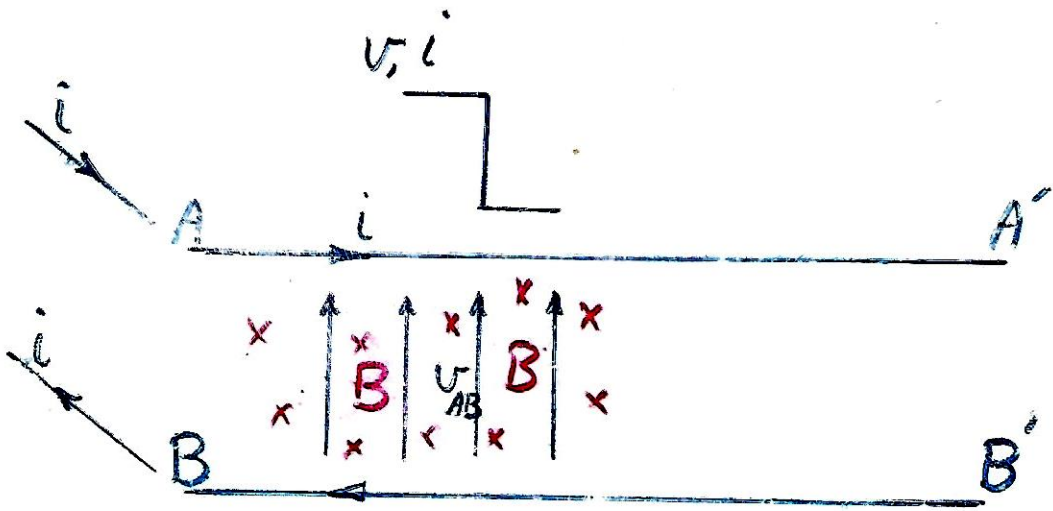
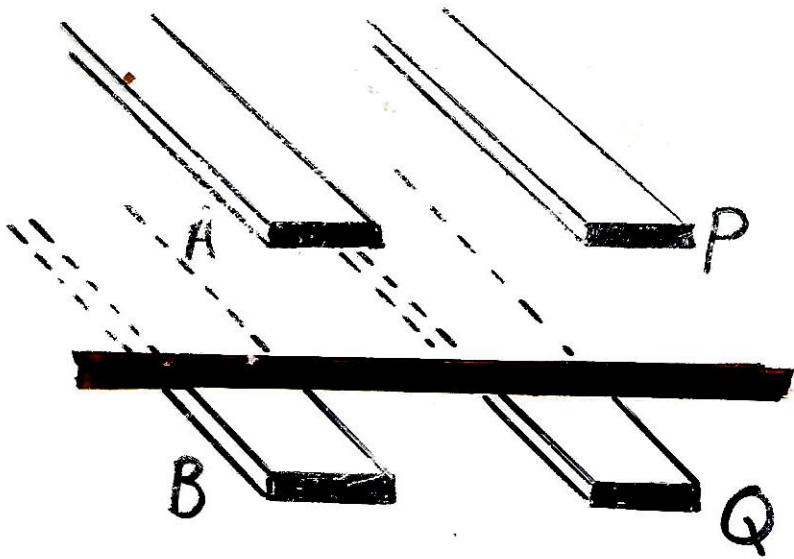


EVEN
MODE



ODD
MODE





$$\frac{V}{i} = Z_{oe} = \sqrt{(L+M)\left(\frac{1}{C} + \frac{1}{D}\right)}$$

$$C_e = \frac{\frac{1}{C} + \frac{1}{D}}{L+M}$$

EVEN
MODE

$$\frac{V}{i} = Z_{oo} = \sqrt{(L-M)\left(\frac{1}{C} - \frac{1}{D}\right)}$$

$$C_o = \frac{\frac{1}{C} - \frac{1}{D}}{L-M}$$

ODD
MODE