

wolo 11KV

Distau bution. Cheneration - Transmission

Stepup

Step clown

faraday laws of

Pouncipal

based on the principle of rans former 3 ic induction or mutual induction (faraday low)

Fig-shows the principle transformer

For towns former

voltage of Brimary oad

binding.

working ft 20

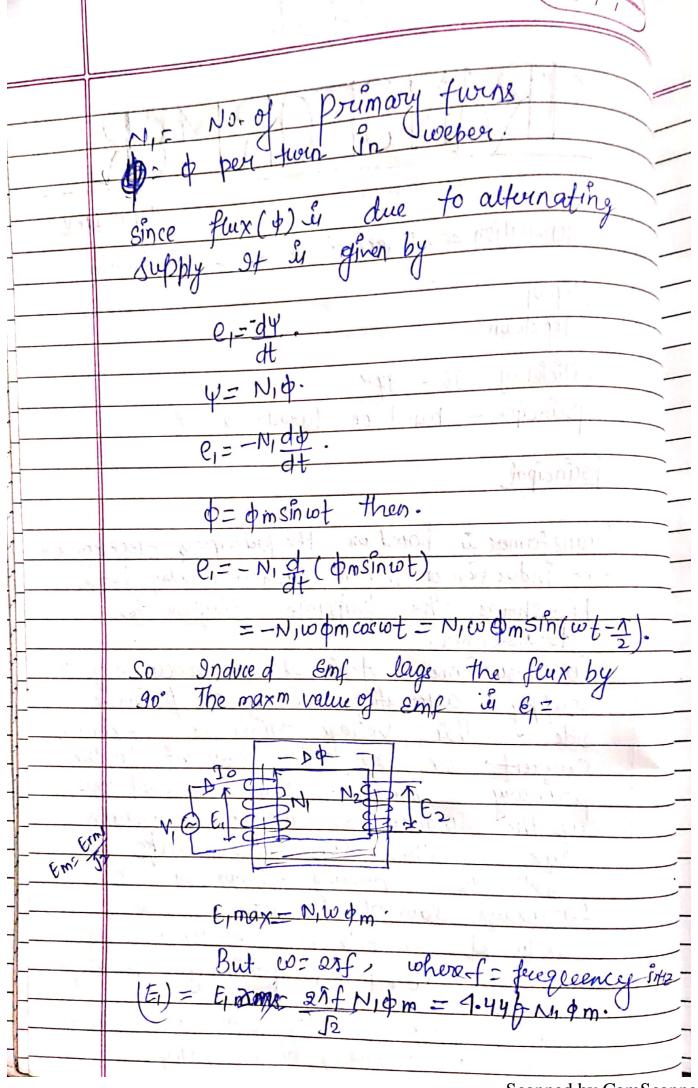
binding - Now

JEMI Emp me bindings Faradays law of

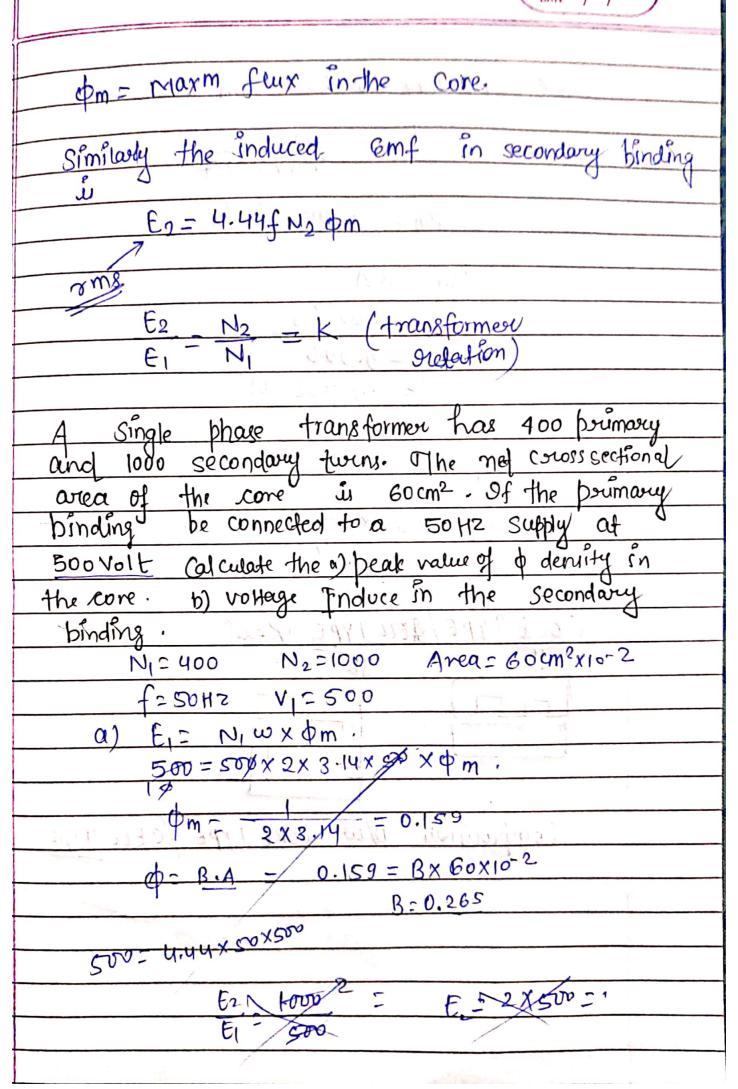
in both the

Ind oced

cond & given by Y= total flux linkes Drumary binding = N, p

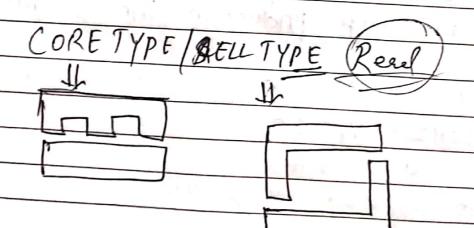


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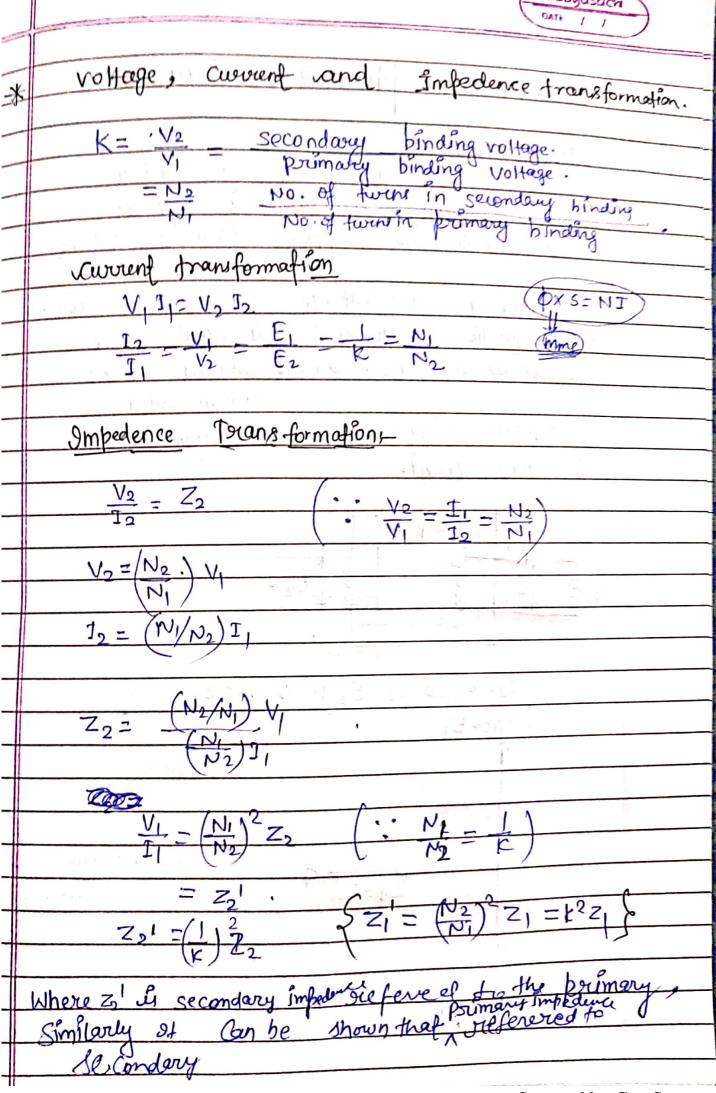


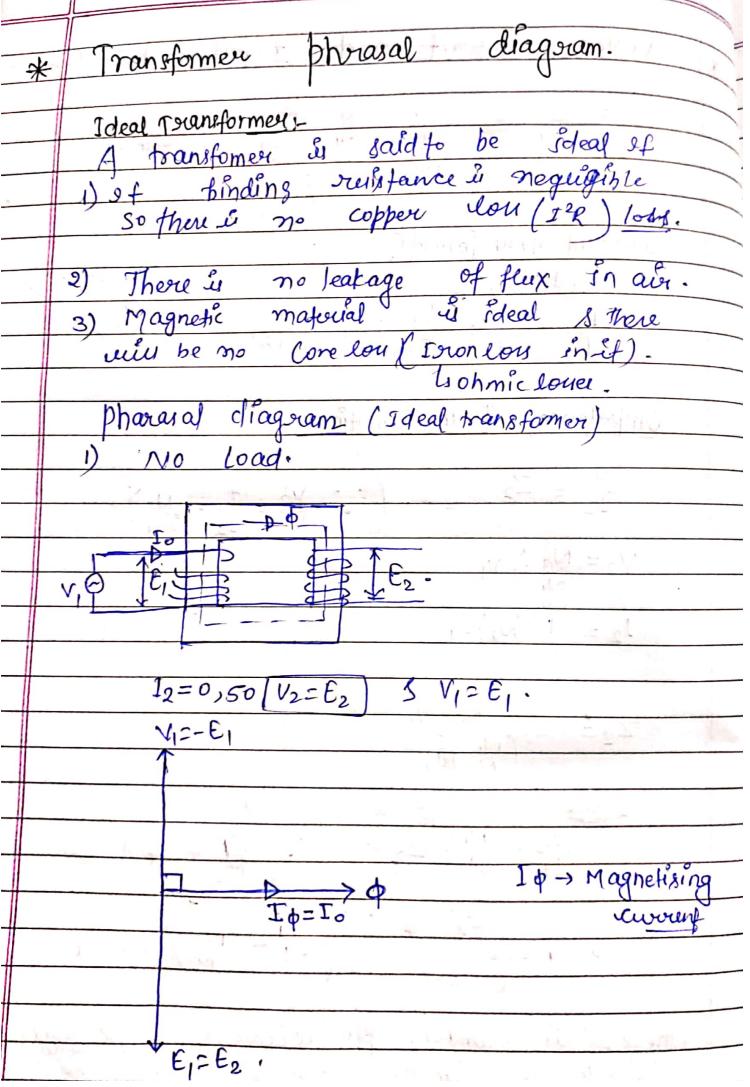
Sabyasachi DATE / /

E1= 4.44 X50 X500 X cm=500

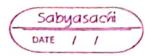


Comparison b/w CORETYPE CELLTYPE





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The no load current produces the magnetising everent flux (4) which induces the Emf E, and E. in both the bindings. , for convenience we assume $E_1 : E_2$ at 90° lagging behind the flux (4) The applied voltage v, is drawn at 90° to φ $V_1 = -E_1$ No load when $-E_1 : E_2$ Exciting current. (an this case) Phasor diagram of ideal Transformer on load.
Γ_1 Γ_2 Γ_2 Γ_3 Γ_4 Γ_5 Γ_6
E, E2 Corcuit is lagging (Frances)
$I_1 N_1 = I_2 N_2$ $I_2 N_1$ $I_2 N_1$
$\overline{I_1} = N_2$ $\overline{I_1} = \overline{I_0} + \overline{I_1}$ $\overline{I_0} = \overline{I_0}$ $\overline{I_0} = \overline{I_0}$
To \tilde{u} only 2 to 6% of I_2 the I_1 . 80 \tilde{u} I_2 Can be neglected. $I_2 = E_1 = +E_2$
$\frac{I_1 - N_2}{I_2 - N_1}$

