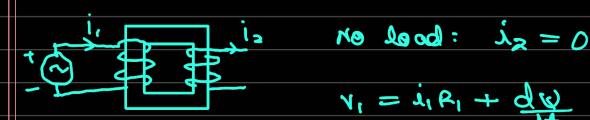
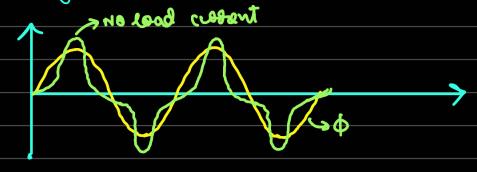
resito-lago book - on: comologramant -

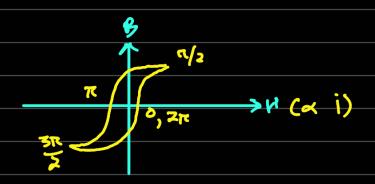


$$v_i = i_1 R_1 + \frac{dw}{dt}$$

Neglecting sresistance drop,

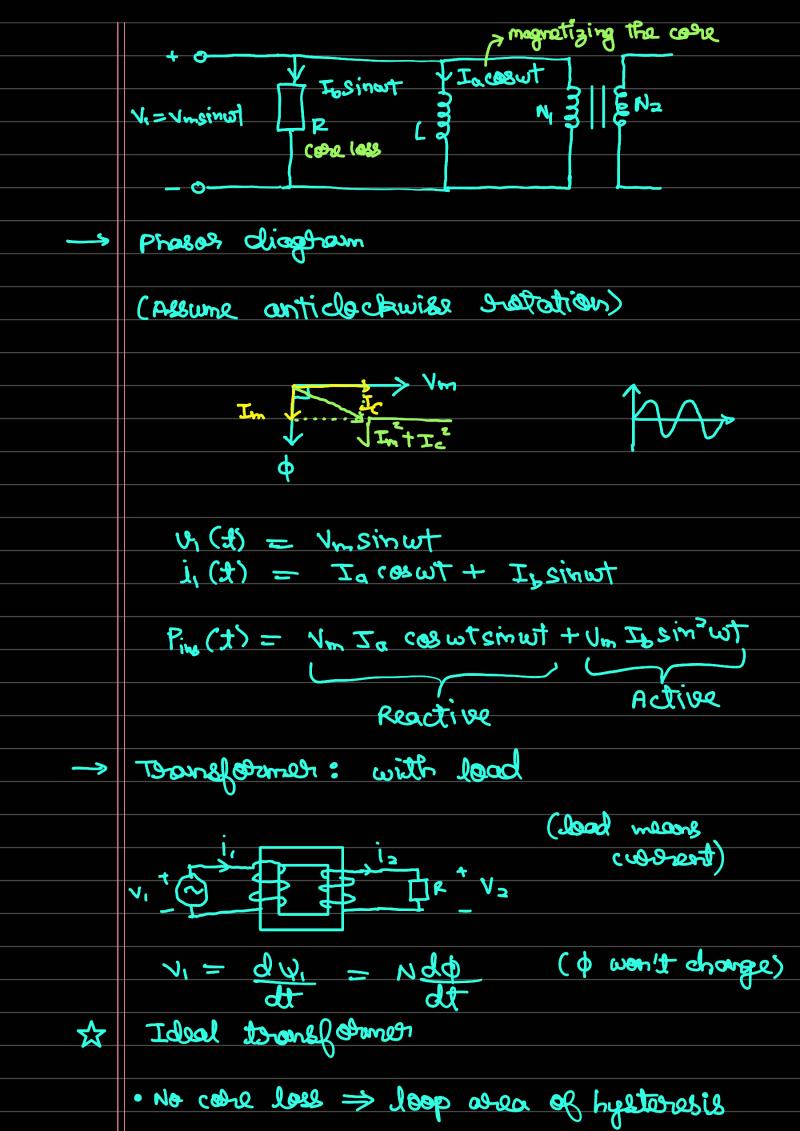
ei reguragent of a transfer book on = not sinusoidal, because of non-linear and multi-valued nature of B-H cubic of color.





-> i,(4) has half-wave symmetry (HWS)

```
(t), i go boised parit (T)
                     HWS => No ever hosemenics in Fourier
                          Series expansion
 \Rightarrow i(\emptyset) = \sum I_{on} cos \omega + \sum I_{on} sin \omega + \sum I_{on} sin
                    (\omega = 2\pi/T)
           i, (t) = Iq, coswt + IL, sinut
                                                                                   + Ia; cos3wt + Ib; sin 3wt + ....
        iso (4) = Ia (82w+ Is sinwt
        V, = Vm sinwt
    \frac{1}{2\pi}\int y_1 i_1 dt = \frac{1}{2\pi}\int y_1 i_{2} dt \longrightarrow \frac{\text{Source}}{\text{columber}}
  \frac{1}{2} \frac{\sqrt{m} T_b}{2} = \frac{\sqrt{m} T_b}{2}
         Z = Z
      Irms is some (some wire loss)
  \sqrt{I_{a_1}^2 + I_{b_1}^2 + I_{a_2}^2 + I_{b_2}^2 + \dots} = \sqrt{I_a^2 + I_b^2}
\Rightarrow I_a = \sqrt{I_{a_1}^2 + I_{a_2}^2 + I_{b_2}^2}
      Now, v_i = v_m sinut
                                                  Leg = In coswit + I sinut
```



core is zono

Leakage effects of plux one neglected Resistance of wines is zono

· core permeability is infity

$$\frac{v_1 = v_1 d\phi}{dt}$$

$$\frac{v_2(t)}{v_3(t)} = \frac{v_1}{v_2}$$

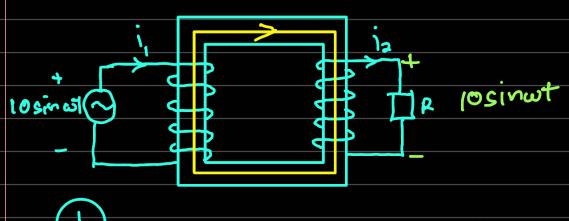
$$\frac{v_3(t)}{v_3(t)}$$

$$\Rightarrow \underline{Blc} = N_1 i_1 - N_2 i_2 \quad (\text{no saturation} \\ u_0 u_0 \qquad \qquad \text{effected})$$
As $u_0 \rightarrow \infty$, $u_0 = 0$

$$80 N_1 i_1 = N_2 i_2$$

$$\Rightarrow i_1 = N_2$$

$$i_2 = N_1$$



Some sense of winding

