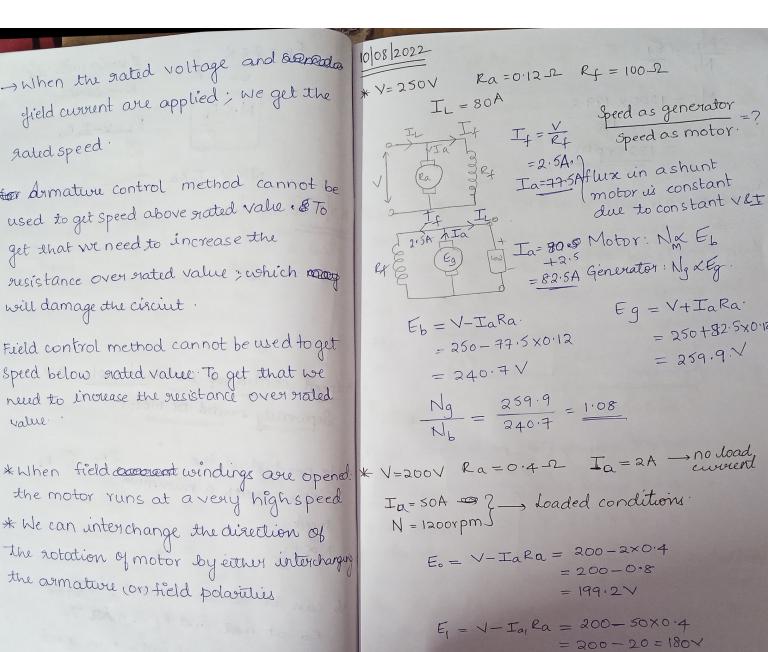


-) When the rated voltage and armada field current are applied; we get the gated speed.

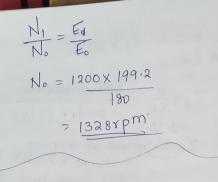
for armature control method cannot be used to get speed above nated value . & To get that we need to increase the resistance over rated value; which many will damage the circuit.

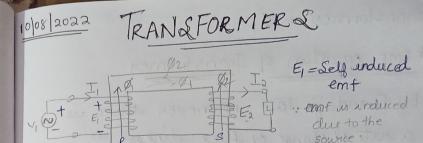
Field control method cannot be used to get speed below stated value To get that we need to increase the sesistance over stated value.

the motor runs at a very high speed * We can interchange the direction of the notation of motor by either intercharging the armature (or) field polarities Ro at next and Eq. . with



NXEb





The transformer just step up or down the voltage: but lotal power on either side remains same $V_1I_1 = V_2I_2$

Due to the flux developed in primary will there is a flux developed in secondary coil; $E_2 = Mutually$ induced emf

Principle Faraday's Law of Induction

E, is time dependent/varying voltage.

Lenz Law: Effect should oppose the cause.

- Constant flux machine.

whenever; there is no load; the reduction in initial flux \$1 due \$ to \$2; therefore, the source supplies a flux \$2 equal to \$2 but opposite in direction.

. Therefore, the overall flux in thes

By Faraday's law; whenever there is a rate of change of flux linkage in a conductor; there is emfinduced

Avg emf/turn = Earg/turn = do = Øm -0

Earg/tian 4f Øm Kf = Rms value = 1.11
Avg value

Rms value = Erms/twin = 4f@m(1.11) Erms/twin=444f@m).

E1 = 4.44 FØMN, E2 = 4.44 FØmN2

*Transformer Ratio(K) = E2 = N2 K>1 → Step-Up Transformer KK1 -> Step-Down Transformer K=1 -> Isolation Jansformer