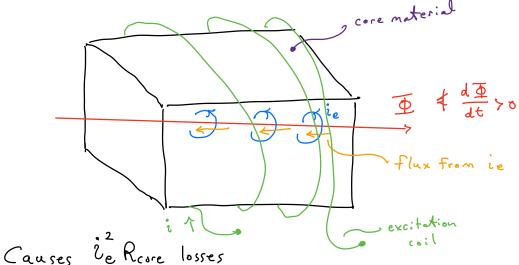
## Lecture # 23, 11/24/21

- Finish motor modeling handout from beginning of quarter
- If we have time
  - · Ch 10, Eddy Currents

- Core eddy corrent loss

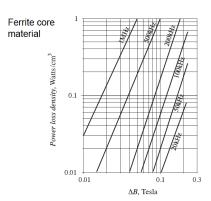
- · Core materials often conductive
- · Faraday & Lenz's Law say corrents will be induced inside core to oppose flux change
- · Eddy currents tend to prevent flux from penetrating into core



Tresistance of core material

Another Stennitz emperical model

PE = KE f Bmax x (core volume)



Empirical equation, at a fixed frequency:

$$P_{fe} = K_{fe} (\Delta B)^{\beta} A_c \ell_m$$

