Lecture # 24 , 11/29/21

· Lab

rend tiese

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Today:

Tips on measuring efficiency.

Load recistors (sow each)

Finish discussion on

rore losses

Eddy carrents

Post = 9 - - - - - 100 %

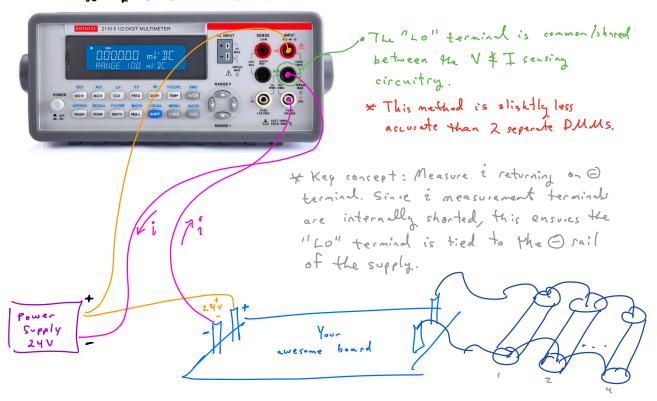
n measurement needs high precision (need 221%)

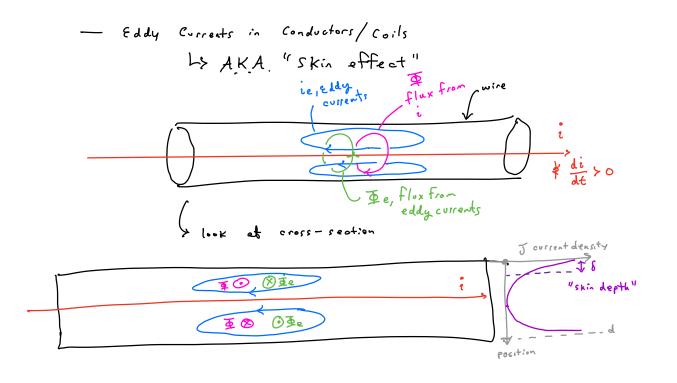
X surge not good enough

X don't trust Keysisat susply readout

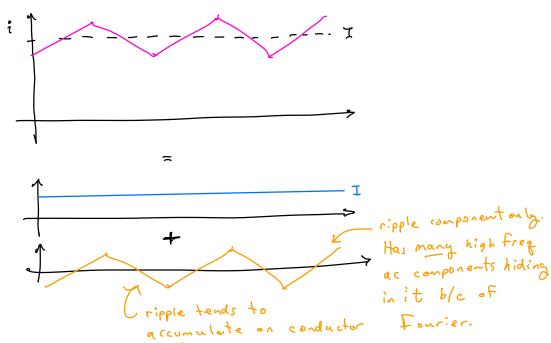
V Pigetal multimeters mounted on bench.

wining 1 DMM to measure V & i at some time.



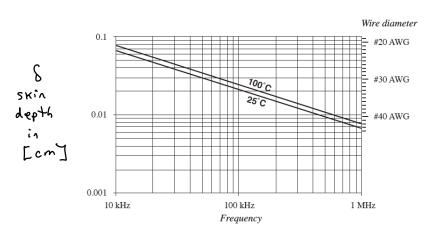


- · Due to experposition, most of current is concentrated on surface
- · Magnitidue of ie is 2 f
- . Look e "de inductor" typically used in a converter

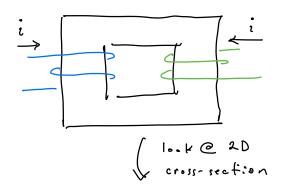


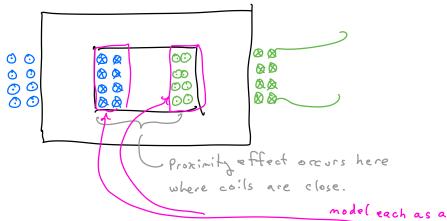
. If high freq/ripple component of is large, then wire not well utilized & i2 Reff losses 1

surface.



- Proximity Effect (Eddy currents between adjacent coils)
 - · Occurs in multi-winding magnetics (ex: xfmrs)





Main idea: Currents in one coil induce currents in second coil

