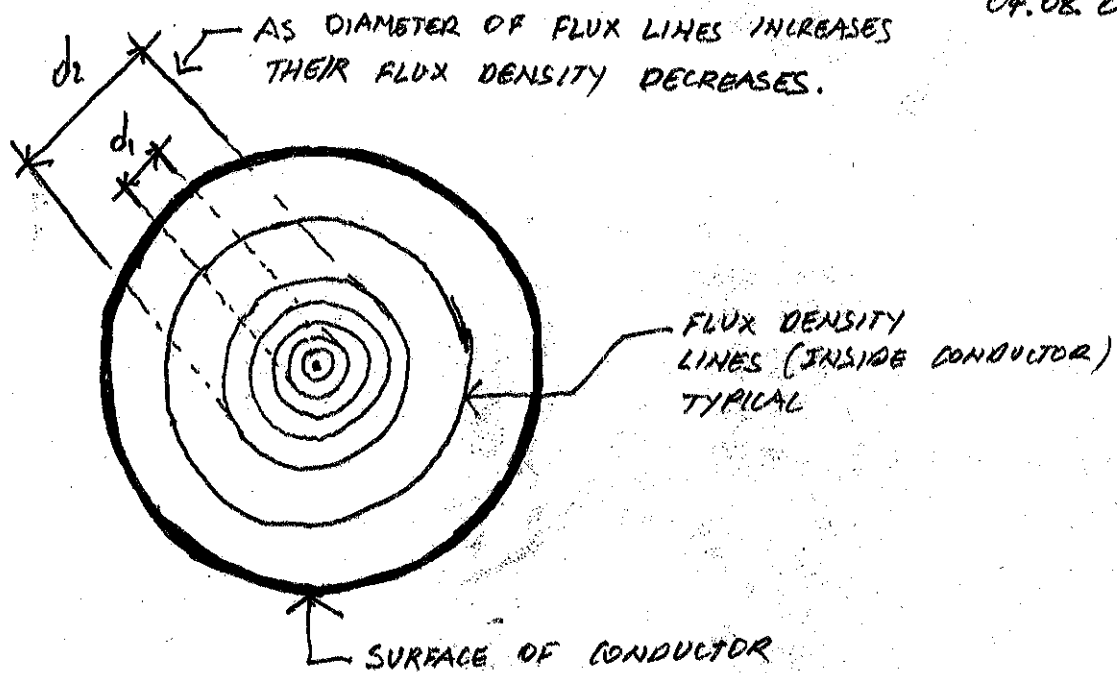


# SKIN EFFECT

VT  
04.08.09



1. IN AC CIRCUITS, ALTERNATING FLUX INDUCES HIGHER VOLTAGES AT HIGHER FLUX DENSITY (MORE VOLTAGE INDUCED AS CENTER OF CONDUCTOR IS APPROACHED)
2. LENZ'S LAW - INDUCED VOLTAGE OPPOSES THE CHANGE OF CURRENT PRODUCING IT.  
(~~AREA~~ AT CENTER OF CONDUCTOR)  
HIGHER INDUCED VOLTAGES MEANS HIGHER OPPOSITION TO CURRENT FLOW, WHICH MEANS THAT MORE CURRENT WILL FLOW ON THE OUTSIDE OF CONDUCTOR CAUSING THE SKIN EFFECT (SURFACE)  
~~SKIN EFFECT~~

AT HIGHER FREQU. SKIN EFFECT ON CONDUCTORS IS HIGHER, BECAUSE OF HIGHER INDUCED VOLTAGES.