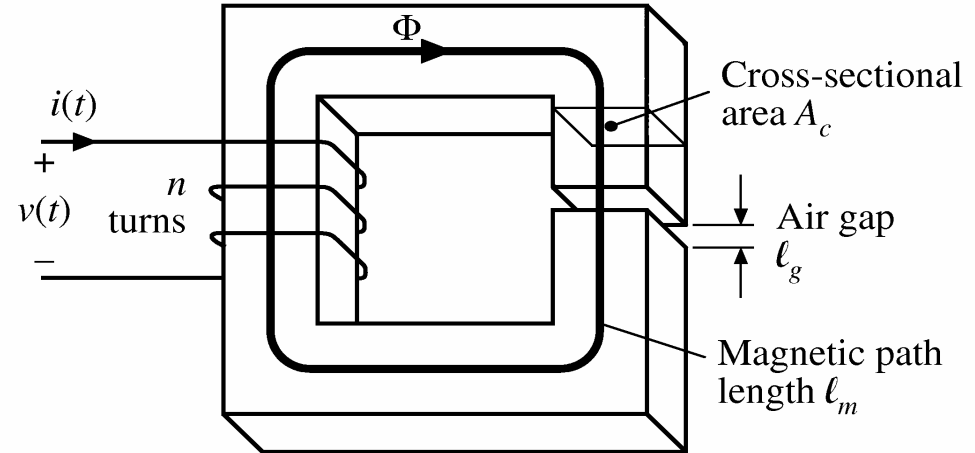
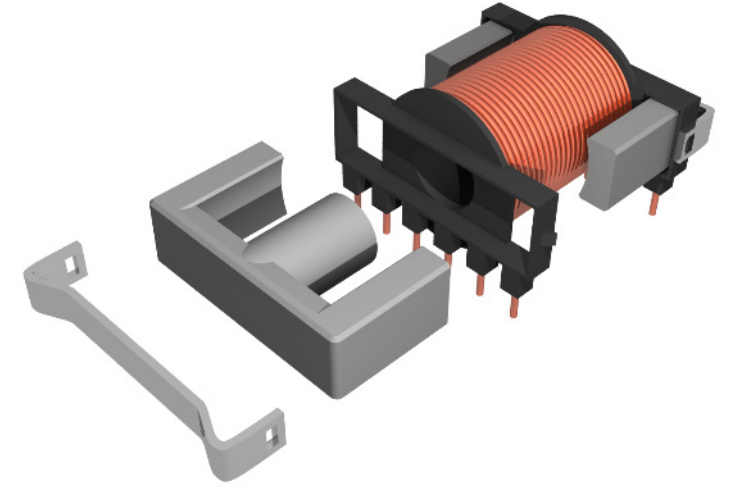


Example: Gapped Inductor



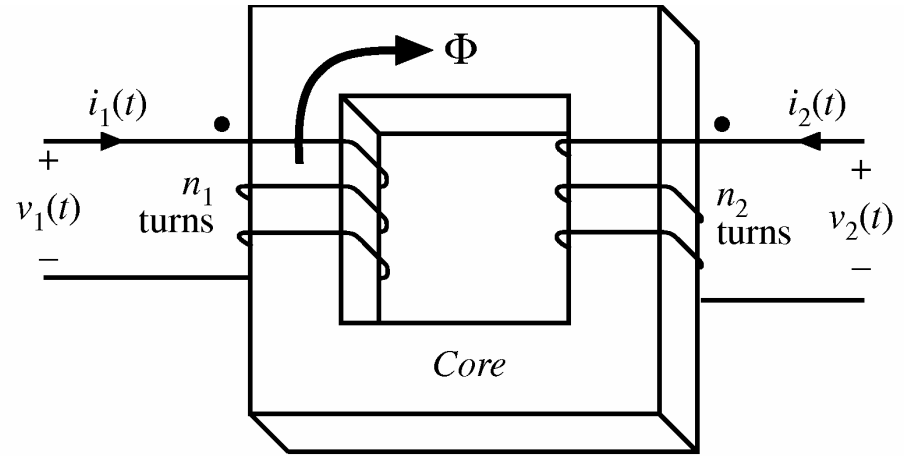
Gapped Inductor Magnetic Circuit

Effect of Air Gap



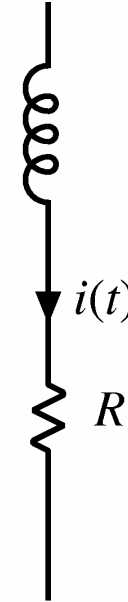


Transformer Example



Nonideal Transformer

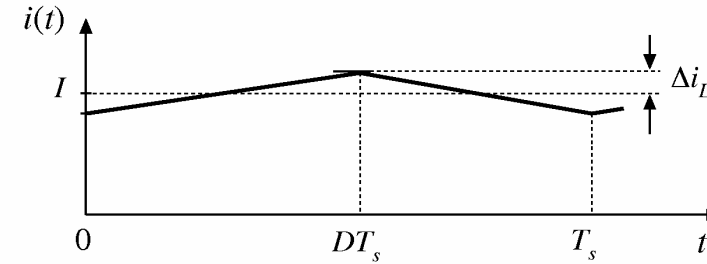
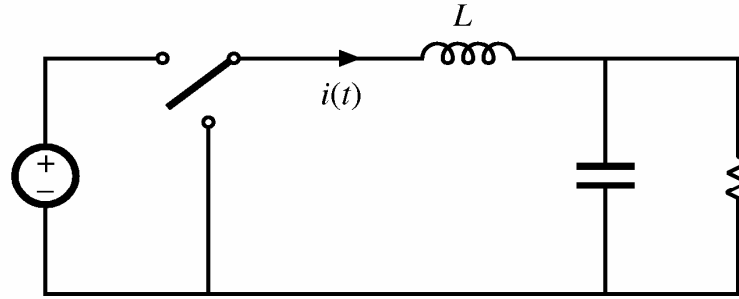
DC Copper Loss



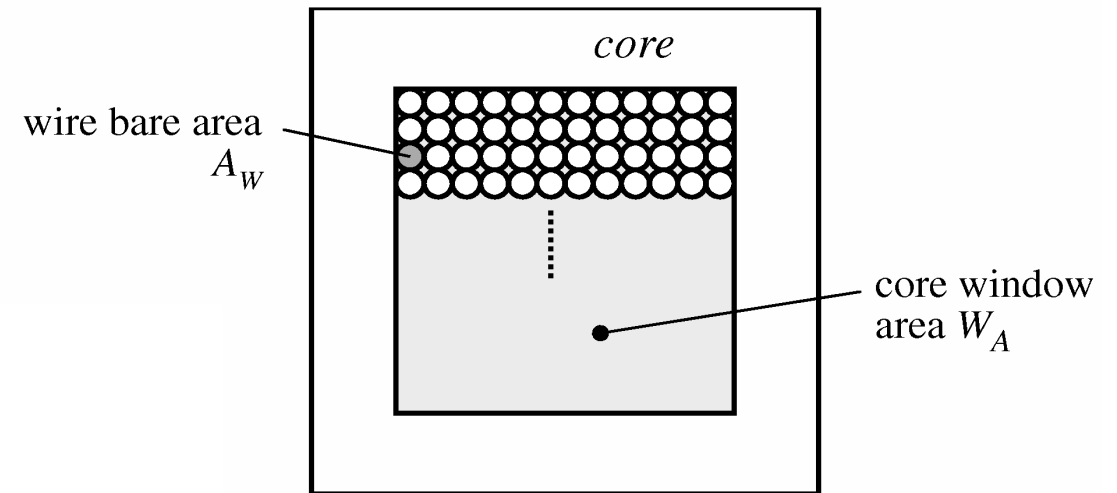
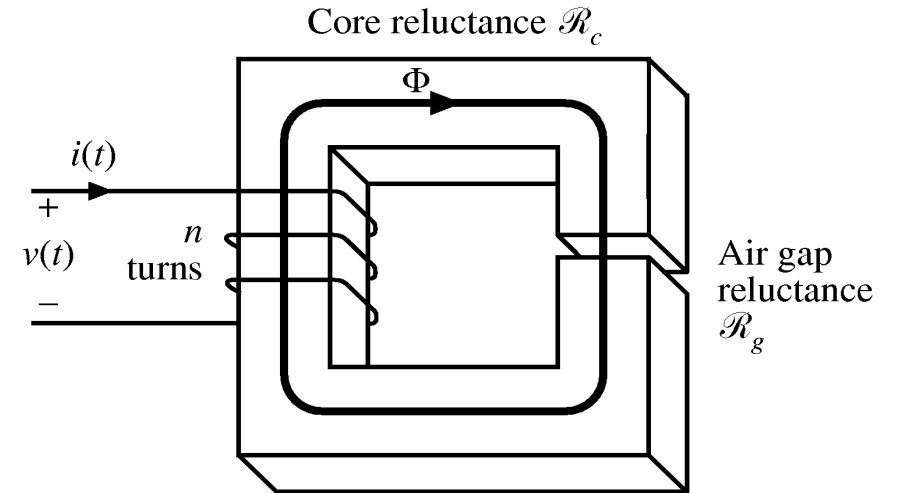
Filter Inductor Design Constraints

Design Goals

Example: filter inductor in CCM buck converter



Geometrical Parameters



The K_g Method