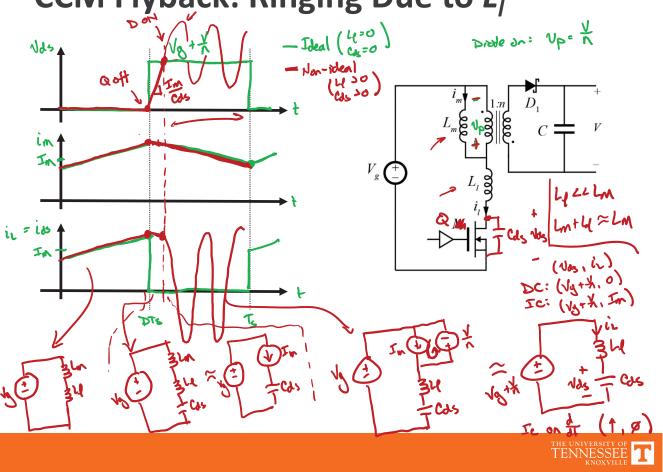
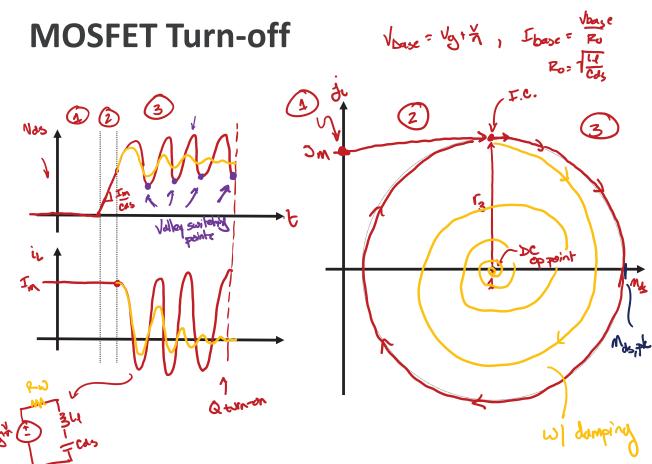
CCM Flyback: Ringing Due to L_I





Leakage Voltage Stress

Cds =
$$100pF$$
 V
 $I_{m} = 1.8mH$
 $I_{q} = 35mH$
 $(200 \text{ of } 2m)$
 $R_{0} = \frac{11}{64s} = 600 \Omega$

$$I_{m} = \frac{nI_{OJ}^{\dagger}}{D^{\dagger}} = 500 \text{ m/h}$$

$$V_{base} = V_{a}^{\dagger} + V_{a}^{\dagger} = 800 \text{ V}$$

$$V_{dsph} = 800 \text{ V} + (0.5 \text{ A})(600 \text{ A})$$

$$I_{a} = 1.1 \text{ kV}$$

TENNESSEE TENNESSEE

Leakage Switching Loss

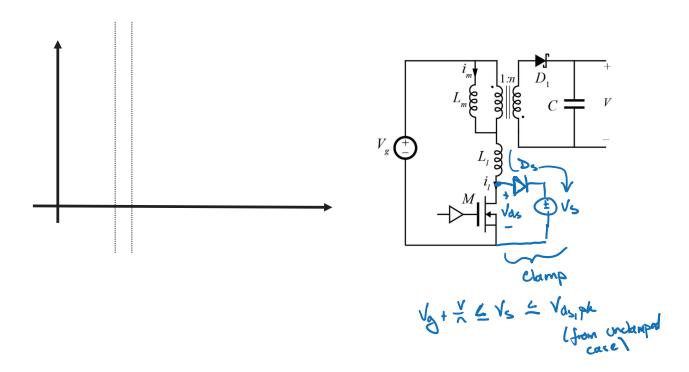
For the fully damped case (i.e. ringing dies out before a turns on)

From state plane:

Estart =
$$\frac{1}{2}Cds(Vg+\chi)^2 + \frac{1}{2}lq Im^2$$

Earl = $\frac{1}{2}Cds(Vg+\chi)^2$

CCM Flyback: Clamping Circuit





Clamped State Plane

