Lecture 40
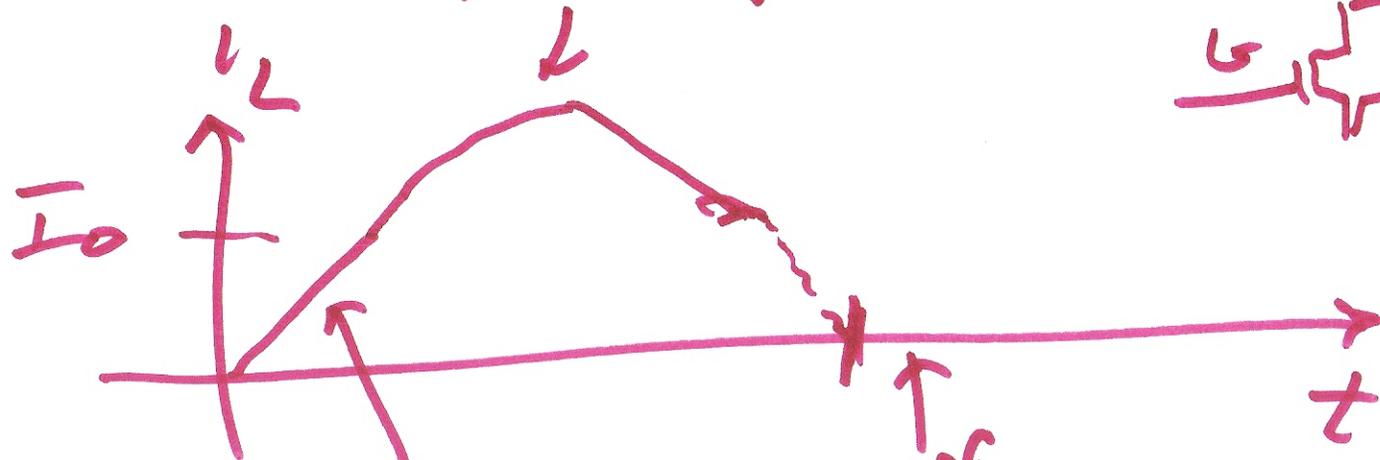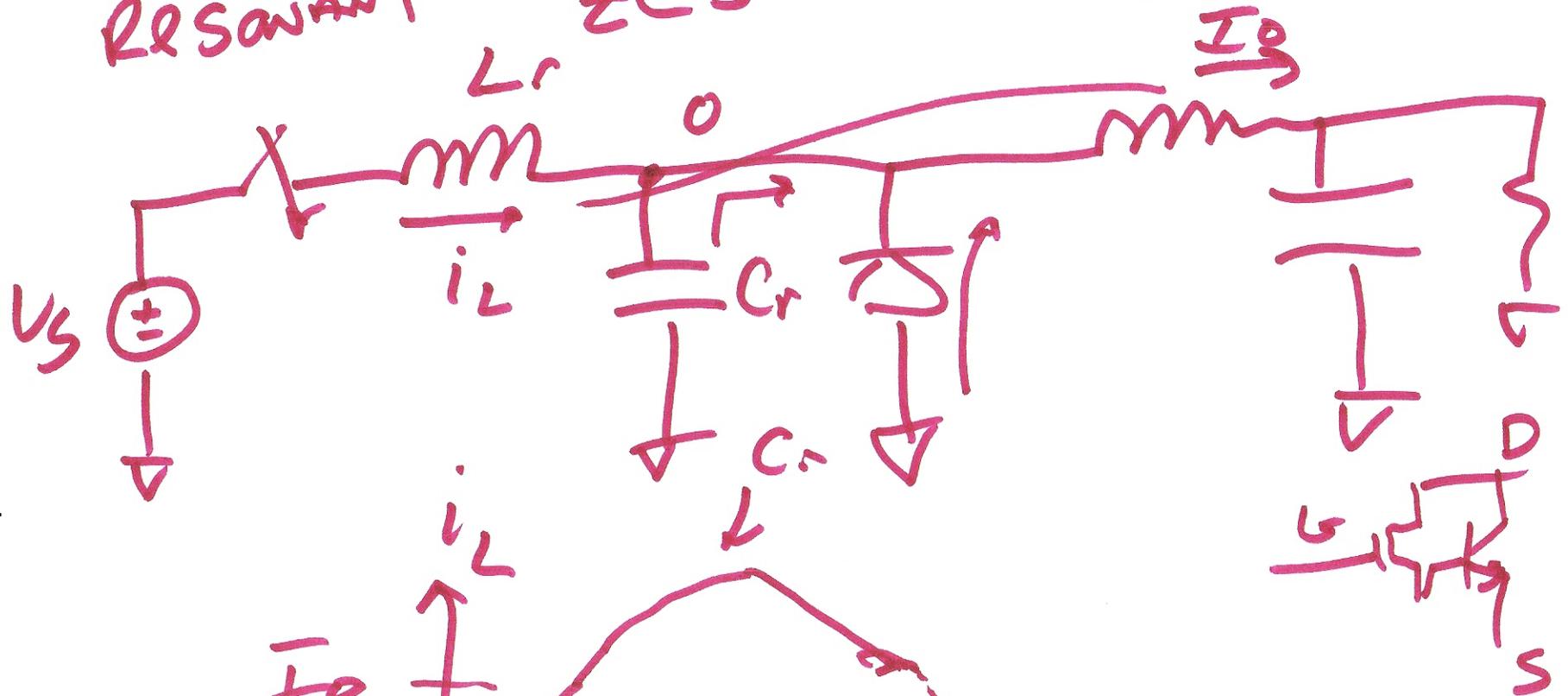
12/8/2010

RESONANT   ZCS
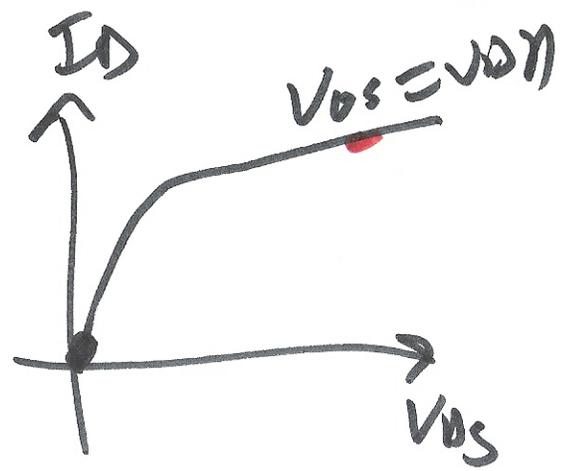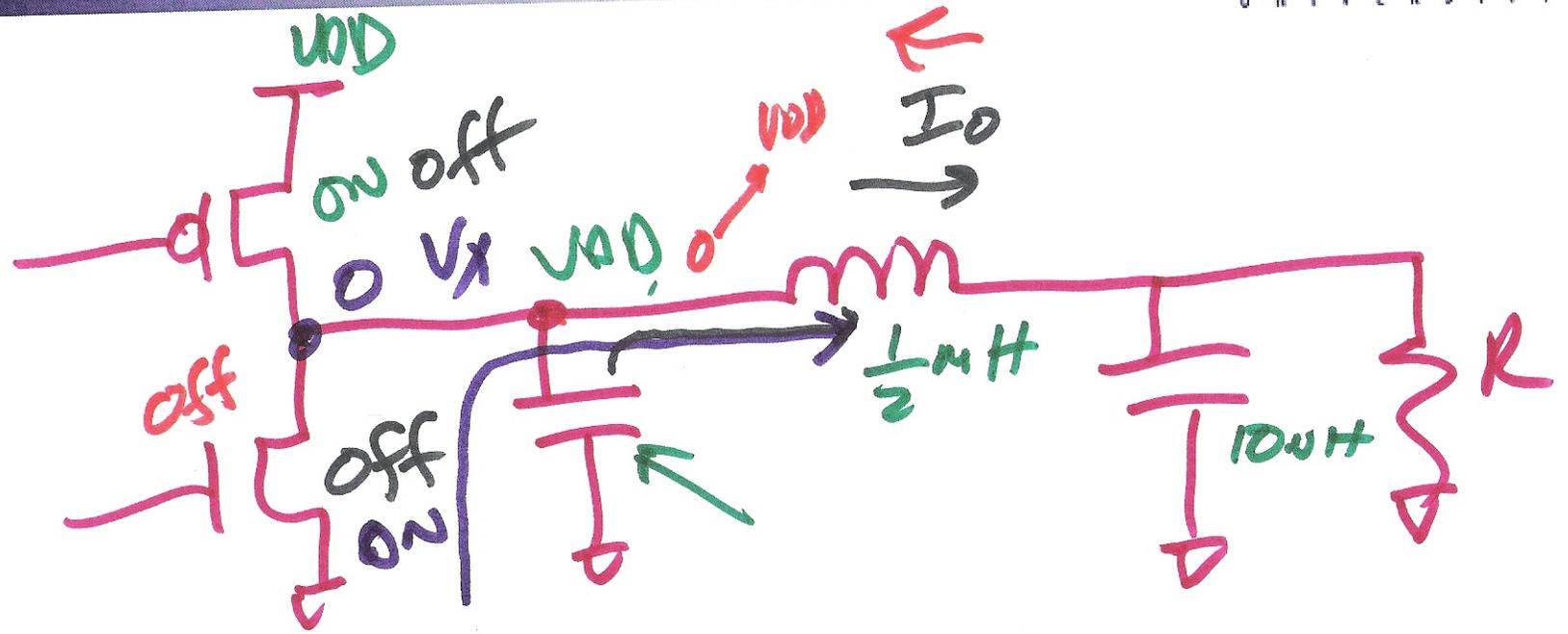

$$\text{Slope} = \frac{V_s}{L_r}$$

off switch

Z VS CMOS

V_{DD}

ON off

$0 \quad V_X \quad V_{DD}$, 0

I_0

off

ON

OFF

OFF ON

$\frac{1}{2}mH$

$10nH$

R

I_D

$V_{DS} = V_{DD}$

V_{DS}

switch

$f = 1 MHz$

$R_{max} = 2x$

$L_{MIN} = 500 MH$

2)

VDD.

IO

NO

U_1

L

i_L

R_L

$T_s = f_s$

i_L

3)