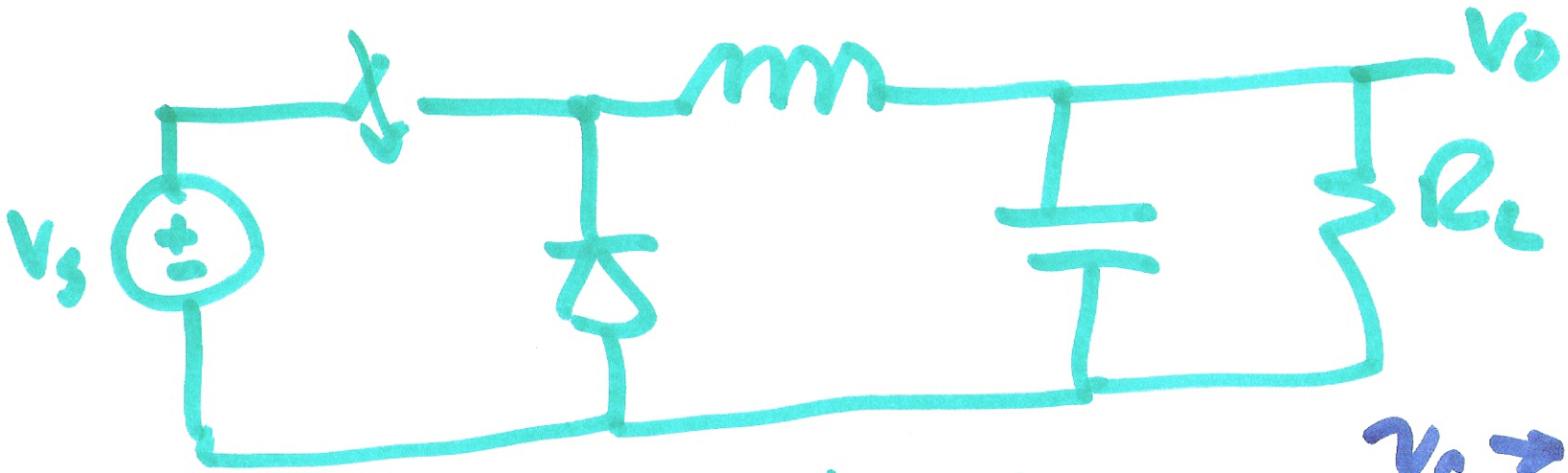
ECE 5/472 Power Electronics

BOISE STATE UNIVERSITY

Lecture 20

OCT. 11, 2010

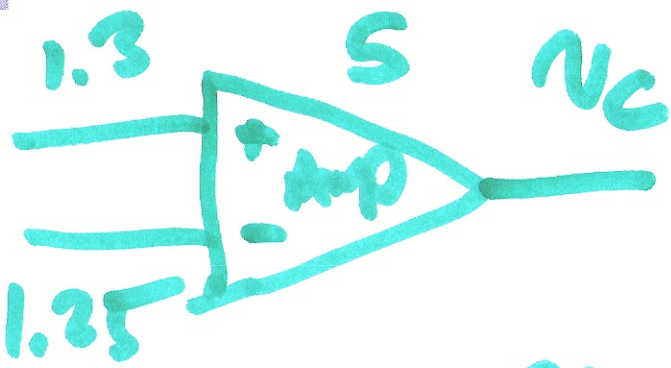


$$V_o = V_s \cdot D$$

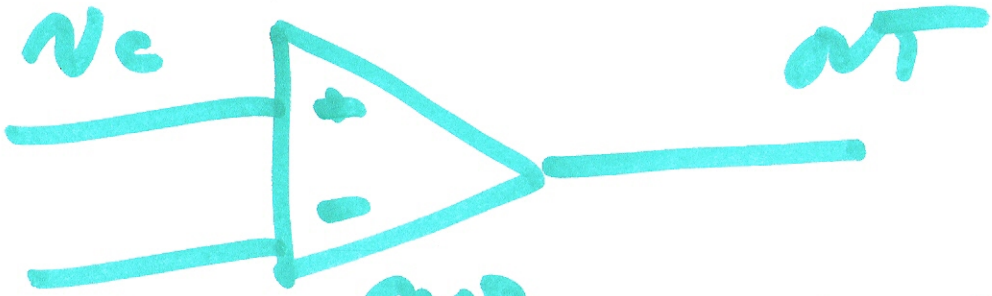
$V_c \rightarrow V_p$

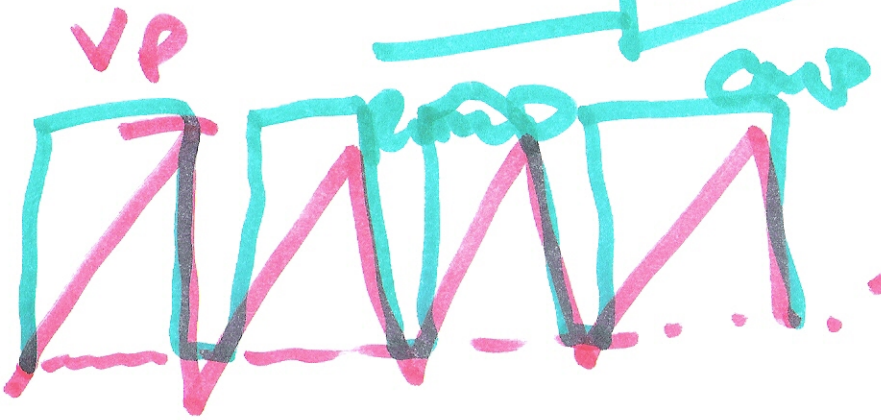
$V_{PWM} \rightarrow 0$

1)



$250mV = 5 \cdot (1.3 - 1.25)$





$V_c \to V_p \to 0 \quad 0 \to 0$

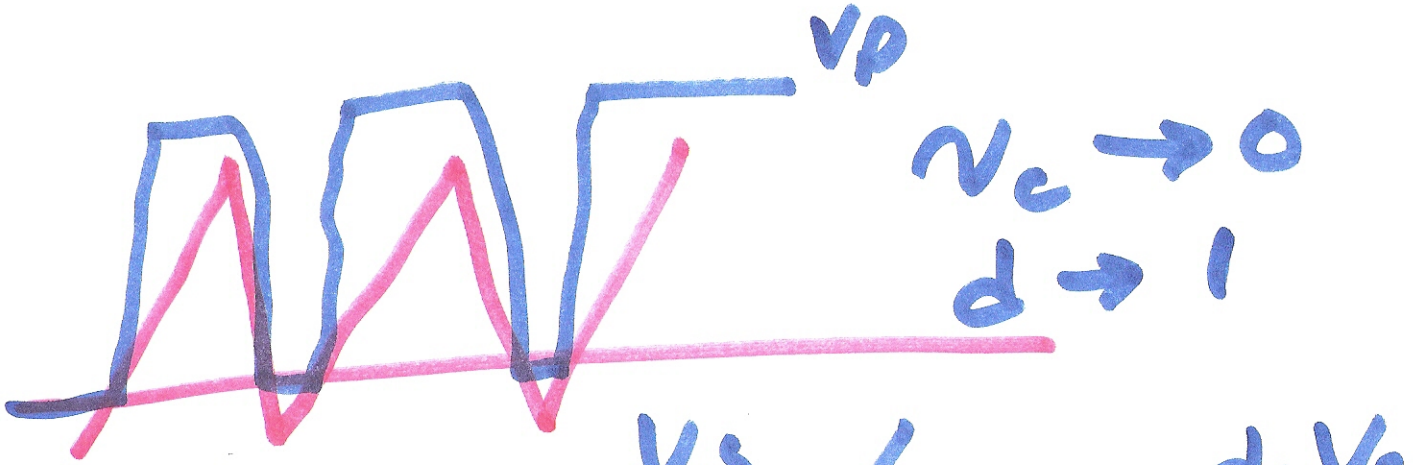
$V_c \to 0 \to V_p$

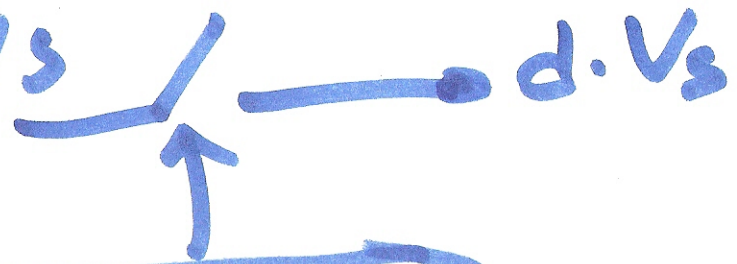
$D \to 1$

2)

$K_{PWM} = \frac{1}{V_p}$

$v_c = V_p(1-d)$ inv.

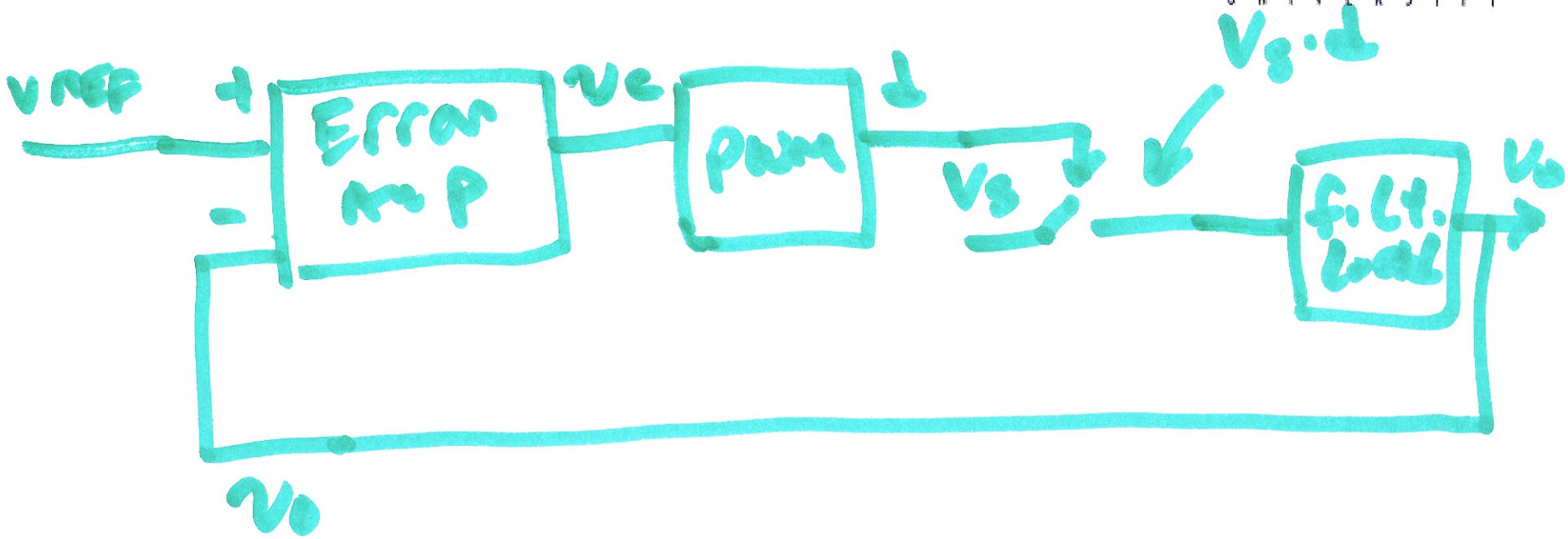




from book

$v_c = V_p \cdot d$

3)


V_{REF}
+
-
Error Amp
V_c
PWM
d
V_s
$V_s \cdot d$
filt. load
V_o
V_o