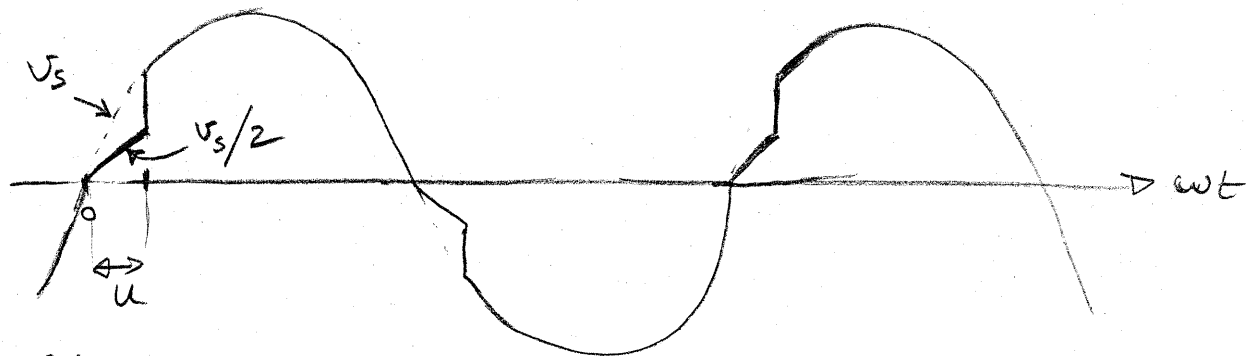
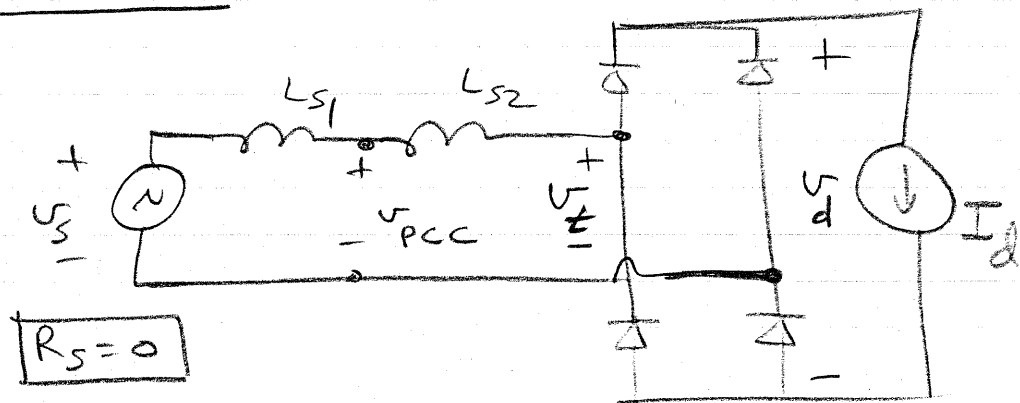


Problem 5-18



Procedure:

Given v_s , ω , $L_s (= L_{s1} + L_{s2})$ and I_d ,
 u can be calculated

During $0 < \omega t < u$

$$v_{pcc}(t) = \frac{v_s}{2} \quad \text{as shown above.}$$

Using Fourier analysis in PSpice,

$$(THD)_{v_{pcc}} = 5.33\%$$