

1)



Average power delivered to load =  $(I_{avg})^2 R_L$ ,

$$I_{avg} = \frac{V_{avg}}{R_{ant} + R_L}, \quad V_{avg} = \frac{V_o}{\sqrt{2}} \Rightarrow I_{avg} = \frac{V_o}{\sqrt{2}(R_{ant} + R_L)}$$

$$\text{Average power} = (I_{avg})^2 R_L = \frac{V_o^2 R_L}{2(R_{ant} + R_L)^2} \quad (\text{Eq. 1})$$

Plot of Average Power

When  $R_L$  is small, Eq 1 is small.

When  $R_L$  is large, Eq 1 is also small.

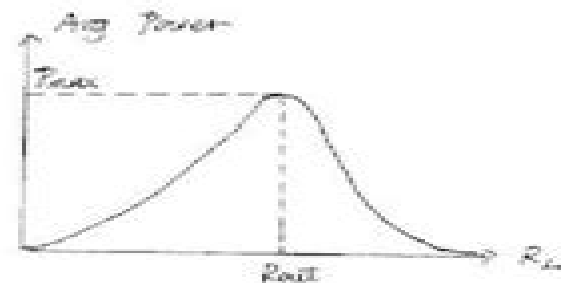
So for some  $R_L$  between zero and infinity, the average power will reach its peak. Let's take the derivative of Eq 1 with respect to  $R_L$  to find the optimum  $R_L$ .

$$\frac{d}{dR_L} \left[ \frac{V_o^2 R_L}{2(R_{ant} + R_L)^2} \right] = \frac{V_o^2}{2(R_{ant} + R_L)^2} - \frac{V_o^2 R_L}{(R_{ant} + R_L)^3}$$

Setting it to zero and solve for  $R_L$

$$\frac{V_o^2}{2(R_{ant} + R_L)^2} = \frac{V_o^2 R_L}{(R_{ant} + R_L)^3} \Rightarrow \frac{(R_{ant} + R_L)}{2} = R_L$$

$$\Rightarrow R_{ant} + R_L = 2R_L \Rightarrow R_L = R_{ant}$$



# Fundamentals Of Microelectronics Solutions Chapter 5

**Behzad Razavi**



# Fundamentals Of Microelectronics Solutions Chapter 5

**Solutions Manual to Accompany Fundamentals of Microelectronics Processing** Hong H. Lee,1990

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