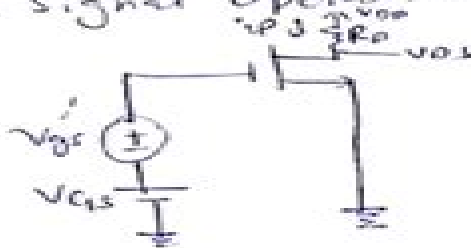


# Lecture 7

## Small signal Operation and Models.



### ① DC Bias Point

DC bias current find by letting  $V_{gs} = 0$

$$I_{D2} = \frac{1}{2} k_n \frac{W}{L} (V_{GS} - V_T)^2$$

$$I_{D2} = \frac{1}{2} k_n V_{GS}^2$$

$$V_{DS} = V_{DD} - I_D R_D$$

For saturation  $V_{DS} > V_{DS,sat}$

since  $V_{GS}$  is superimposed on  $V_{DS}$

$$V_{GS} \gg V_{DS}$$

①  
sat  
 $V_{GS} < V_T$   
 $V_{GS} > V_{GS,sat}$   
cutoff  
 $V_{GS} < V_T$   
linear  
 $V_{GS} > V_T$   
open switch  
closed switch  
 $R = 0$   
 $V_{GS} = 0$   
 $V_{DS} = 0$

### ② Signal current in DC bias point

consider input signal  $V_{gs}$  applied.

$$V_{GS} = V_{GS1} + V_{gs}$$

$$I_D = \frac{1}{2} k_n (V_{GS1} + V_{gs} - V_T)^2$$

$$= \frac{1}{2} k_n (V_{GS1} - V_T)^2 + k_n (V_{GS1} - V_T) V_{gs} + \frac{1}{2} k_n V_{gs}^2$$

dc bias current  
 $I_{D1}$

current component  
 $V_{gs}$  input

current component  
 $V_{gs}$  input → undesirable

# Electronics Ii

**Naval Postgraduate School (U.S.)**



## Electronics II:

## Unveiling the Magic of Words: A Review of "**Electronics Ii**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Electronics Ii**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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