

# Electronics II Formula Sheet by Mark W.

- Over drive Voltage:  $V_{OV} = (V_{GS} - V_t)$  •  $k'_n = \mu_n C_{ox} (A/V^2)$
- Cut off ( $i_D = 0$ ):  $v_{GS} < V_{th}$ ; • Channel induced and Mosfet is in triode or saturation:  $v_{GS} = v_{DS} + V_{OV}$

Stats	Triode region	Saturation Region
Conditions	$v_{GS} > V_t$ $v_{DS} < v_{GS}$	$v_{GS} \leq V_t$ $v_{DS} \geq v_{GS}$
$i_D$	$\frac{1}{2} k'_n \frac{W}{L} (v_{OV} - \frac{1}{2} v_{DS}) v_{DS}$	$\frac{1}{2} k'_n \frac{W}{L} v_{OV}^2$

- $g_m = \frac{\partial i_D}{\partial v_{GS}} = k'_n \frac{W}{L} v_{OV} = g_m = \sqrt{2K'_n i_D} \sqrt{\left(\frac{v_{GS}}{V_t}\right)} = \frac{2i_D}{v_{OV}} (4.6.2.6)$ , •  $V_A = \frac{1}{\lambda}$ , •  $r_o = \frac{V_A}{i_D}$ , •  $A_v = -g_m (R_D || r_o)$ .

## Characteristic Parameters

MOSFET	Voltage Gain, $A_v$	$G_v$	Input Resistance, $R_i$	Output Resistance, $R_o$
Common Source (Hybrid model)	$-g_m (R_D    r_o    R_L)$	$-\frac{R_C}{R_C + R_{sig}} g_m (R_D    r_o    R_L)$	$\infty$	$R_D    r_o$
Common Source with a source resistance (T-Model)	$\frac{-g_m (R_D    R_L)}{1 + g_m R_s}$	$-\frac{R_C}{R_C + R_{sig}} \frac{g_m (R_D    R_L)}{1 + g_m R_s}$	$\infty$	$R_D$
Common Gate (T-Model)	$g_m (R_D    R_L)$	$\frac{1}{1 + g_m R_{sig}} g_m (R_D    R_L)$	$\frac{1}{g_m}$	$R_D$
Common Drain (T-Model)	$\frac{r_o    R_L}{(r_o    R_L) + \frac{1}{g_m}}$	$\frac{R_C}{R_C + R_{sig}} \frac{r_o    R_L}{(r_o    R_L) + \frac{1}{g_m}}$	$\infty$	$\frac{1}{g_m}$

- $f_t = \frac{g_m}{2\pi(C_{gs} + C_{gd})}$  (Unity Gain Frequency) •  $R_L' = R_D || r_o || R_L$  •  $C_{eq} = C_{gs}(1 + g_m R_L)$  •  $C_{in} = C_{gs} + C_{eq}$

- $f_{Hf} = \frac{1}{2\pi C_{in}(R_{sig} || R_G)}$  (Upper 3-dB freq.)

## Differential and multi-stage amplifier

Let  $I$  be the total current in common mode voltage

- $v_{DS1} = v_{DS2} = V_{DD} - \frac{I}{2} R_D$ , •  $i_{D1} = i_{D2} = \frac{I}{2} = k'_n \frac{W}{L} v_{GS}^2$

The value of  $v_{GS}$  at which the entire bias current  $I$  is steered into Q1 is  $v_{GSmax} = v_{GS1} + v_s = \sqrt{2} V_{OV}$

Output of differential pair taken single ended:

- Common-mode gain =  $|A_{CM}| = \frac{R_D}{2R_{sig}}$ , • Differential gain =  $|A_d| = \frac{1}{2} g_m R_D$ , •  $CMMR = \left| \frac{A_d}{A_{CM}} \right| = g_m R_{sig}$

Output of differential pair taken differentially:

- Common-mode gain =  $|A_{CM}| = 0$ , • Differential gain =  $|A_d| = g_m R_D$ , •  $CMMR = \left| \frac{A_d}{A_{CM}} \right| = \infty$

Mismatch effect ( $g_m$  and  $R_D$ ):

- $A_{CM} = -\frac{\Delta R_D}{2R_{sig}}$  (Rd mismatch), •  $CMMR = \left| \frac{A_d}{A_{CM}} \right| = 2g_m R_{sig} / \left(\frac{\Delta R_D}{R_D}\right)$ , •  $A_{CM} = \frac{R_D}{2R_{sig}} \frac{\Delta g_m}{g_m}$  ( $g_m$  mismatch), •  $CMMR = \left| \frac{A_d}{A_{CM}} \right| = 2g_m R_{sig} / \left(\frac{\Delta g_m}{g_m}\right)$

# Electronics Engineering Formula For Gate Maschs

**S Marginson**



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Midwest Technical Mathematics with Calculus Eleanor H. Ninestein,1992 *Frontiers in Algorithmics and Algorithmic Aspects in Information and Management* Jack Snoeyink,Pinyan Lu,Kaile Su,Lusheng Wang,2012-04-29 This book constitutes the refereed proceedings of the 6th International Frontiers of Algorithmics Workshop FAW 2012 and the 8th International Conference on Algorithmic Aspects in Information and Management AAIM 2012 jointly held in Beijing China in May 2012 The 33 revised full papers presented together with 4 invited talks were carefully reviewed and selected from 81 submissions The papers are organized in topical sections on algorithms and data structures algorithmic game theory and incentive analysis biomedical imaging algorithms communication networks and optimization computational learning theory knowledge discovery and data mining experimental algorithmic methodologies optimization algorithms in economic and operations research pattern recognition algorithms and trustworthy algorithms and trustworthy software

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