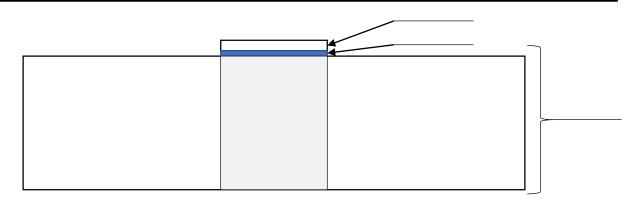
## **MOSFET Transistors**

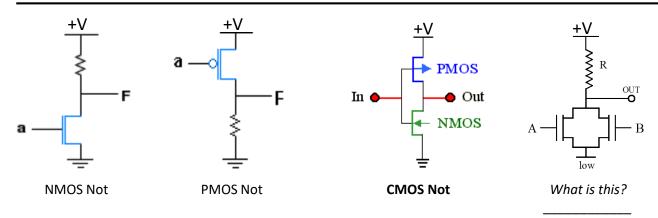
M	
0	
S	
F	
E	
7	

1	1	Periodic Table of the Elements															18 He
Hydrogen 1.01	2											13	14	15	16	17	Helium 4.00
³Li	⁴Be											§ В	ا ا	<sup>7</sup> N	ြီဂ	F	Ne Ne
Lithium 6.94	Beryllium 9.01											Boron 10.81	Carbon 12.01	Nitrogen 14.01	Oxygen 16.00	Fluorine 19.00	Neon 20.18
Na	Ma Ma											13 Al	¹⁴Si	15 P	<sup>16</sup> S	<sup>17</sup> CI	<sup>18</sup> Ar
Sodium 22.99	Magnesium 24.31	3	4	5	6	7	8	9	10	11	12	Aluminum 26.98	Silicon 28.09	Phosphorus 30.97	Sulfur 32.07	Chlorine 35.45	Argon 39.95
19 K	Ca	Sc	<sup>22</sup> Ti	<sup>23</sup> V	<sup>24</sup> Cr	Mn 25	Fe Fe	<sup>27</sup> Co	<sup>28</sup> Ni	<sup>29</sup> Cu	<sup>30</sup> Zn	Ga	Ge 32	33 As	³⁴ Se	35 Br	Kr Kr
Potassium 39.10	Caldum 40.08	Scandium 44.96	Titanium 47.87	Vanadium 50.94	Chromium 51.99	Manganese 54.94	Iron 55.85	Cobalt 58.93	Nickel 58.69	Copper 63.55	Zinc 65.38	Gallium 69.72	Germanium 72.63	Arsenic 74.92	Selenium 78.97	Bromine 79.90	Krypton 84.80
Rb	38 Sr	<sup>39</sup> <b>v</b>	<sup>40</sup> 7r	⁴Nb	<sup>42</sup> Mo	<sup>43</sup> Tc	<sup>44</sup> R∪	45 Rh	<sup>46</sup> Pd	47 A A	<sup>‡8</sup> Cd	<sup>49</sup> In	⁵Sn	Sb	Te 52	53	<sup>54</sup> Xe
Rubidium 84.47	Strontium 87.62	Yttrium 88.91	Zirconium 91,22	Niobium 92.91	Molbdenum 95,95		Ruthenium 101.07	Rhodium 102.91	Palladium 106.42	Ag siver 107.87	Cadmium 112.41	Indium 114.82	Tin 118.71	Antimony 121.76	Tellurium 127.6	lodine 126.90	Xenon 131.25
<sup>55</sup> Cs	56 Ba	57-71	72 Hf	73 <b>Ta</b>	74 W	75 Re	76 Os	77	78 Pt	79	Ha	<sup>81</sup> TI	Pb	Bi	<sup>84</sup> Po	85 At	86
Cesium 132.91	Barium 137.33	Lanthanides	Hafnium 178.49	Tantalum 180.95	Tungsten 183.84	Rhenium 186.21	Osmium 190.23	ir Iridium 192.22	Platinum 195.09	AU Gold 196.97	Mercity 200.59	Thallium 204.38	Lead 207.2	Bismuth 208.98	Polonium [208.98]	Astatine 209.99	Rn Radon 222,02
87	88	89-103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118
Fr Francium 223,02	Radium 226.03	Actinides	Rf Butherfordium [261]	Db Dubnium [262]	Seaborgium [266]	Bh Bohrium [264]	Hassium (269)	Mt Meitnerium [268]	Ds Dermstadtium [269]	Rg Roentgenium 12721	Cn Copernicium [277]	Ununtrium	Fl Flerovium [289]	Uup Ununpentium unknown	LV Livermorium [298]	UUS Ununseptium unknown	
223.02	(220.03)	$\overline{}$	راها	[_[262]_	J(	[_[264]_	J[269]_	J[268]_	J	[[2/2]]		unknown	[[289]]	Junknown	[ [Z96] ]	(unknown)	(Unknown)

Transistor - NPN FET



## Logic — NMOS/PMOS Inverter vs CMOS Inverter



## Fabrication — The CMOS process

