





Logic Inventor Load PMOS In ow J- Vow R2 Vont
Vin = VDD Vout = ? 0 119 Vin = VDD YOD RON -25 KM Vas: Vp, > VTh), V:n = 0 FR2 Vont = VDD Vout = Row Row Row Pour V

Voltage Transfor Characteristic (VTC) Vow1 VDD J PULLUP ERE VD Vont Vin Source
Gnd
Voc=Vout=0 VDD - Vowt = M Cox W (\Vas - V_T) Vowt \\
Rc \\
\tag{Vow D} \\
\text{Rc} \\
\ $O \longrightarrow V_{DD}$ Voll: Nonvival high voltage $SV \rightarrow 3.3V \rightarrow 2.5V$ $\rightarrow 1.1V$ 1.8V Vol: Nominal low voltage



