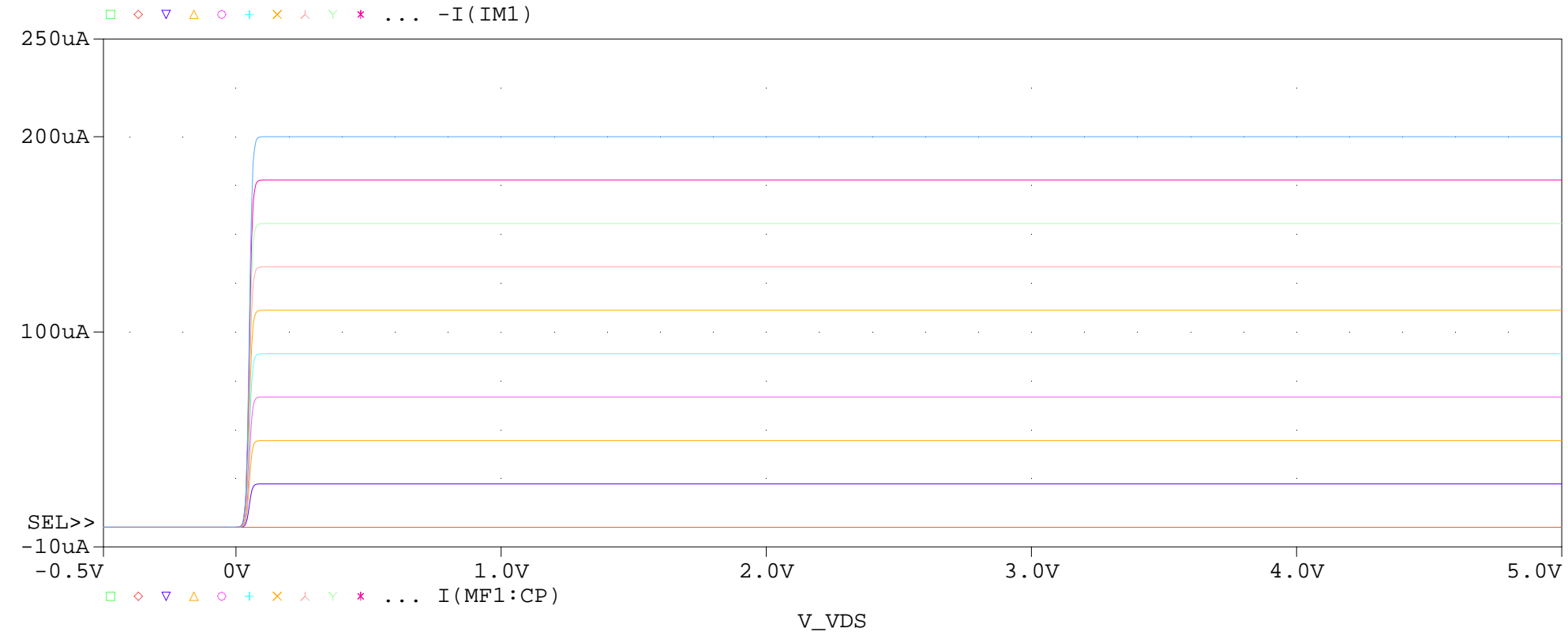
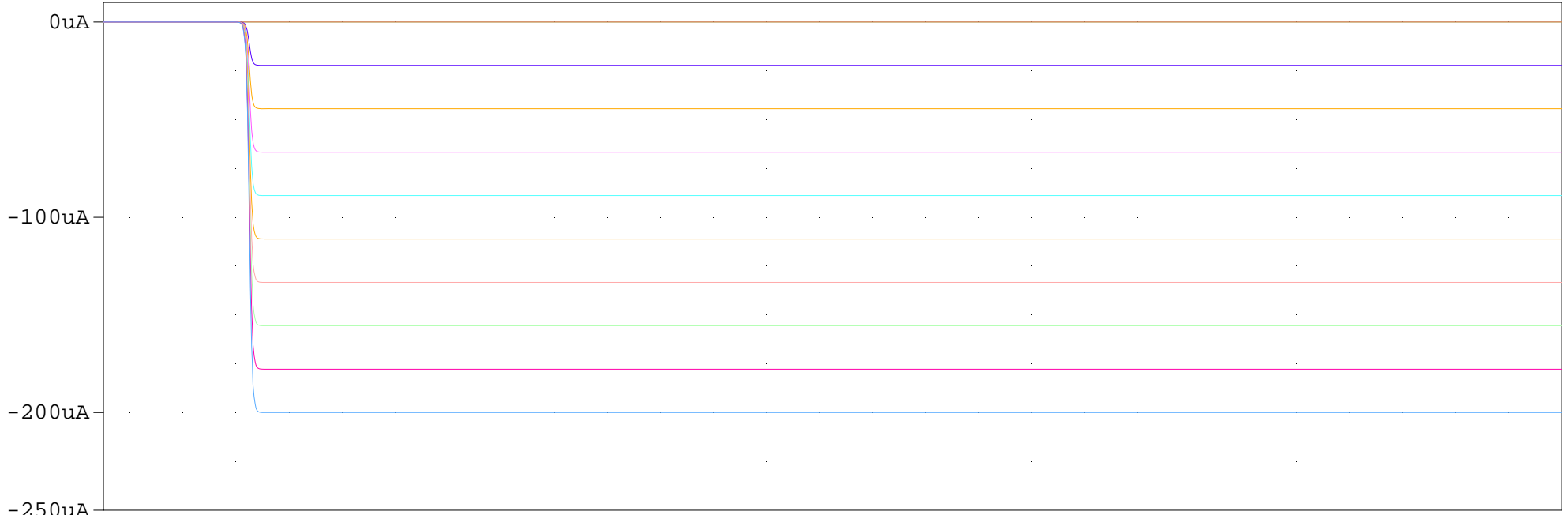


FauxFET Simulation



```
*****
** FauxFET © 2014 by James E. Thompson, see my page at http://www.analog-innovations.com/
** Behavioral Equivalent to a MOSFET suitable for modeling Logic Blocks
** for Use in Analog Simulators (All Derivatives Exist and are Continuous)
** To emulate an NMOS, connect GN to CN, that node becomes the NMOS Source, CP the NMOS Drain
** To emulate a PMOS, connect GP to CP, that node becomes the PMOS Source, CN the PMOS Drain
.SUBCKT FauxFET CP CN GP GN PARAMS: VTH=0.6V IMX=100uA VMX=5V CDS=200fF
GPN CP CN VALUE {IMX*(V(GP,GN)-VTH)/(VMX-VTH)*(1+TANH(88*(V(GP,GN)-VTH-0.05)))*(1+TANH(88*(V(CP,CN)-0.05)))/4}
CPN CP CN {CDS}
.ENDS FauxFET
*****
```