

Transfer characteristics, gain and Crss extracted from simulation test bench and imported for 3 different MOSFET technology families
C3, CP and C7

$I_{D_CP_dat} :=$

	0
0	...

$I_{D_C7_dat} :=$

	0
0	...

$I_{D_C3_dat} :=$

	0
0	...

Import the data from Excel-file

$G_{m_CP_dat} :=$

	0
0	...

$G_{m_C7_dat} :=$

	0
0	...

$G_{m_C3_dat} :=$

	0
0	...

$V_{gs} := 0, 0.1..12$

$I_{D_CP}(V_{gs}) := I_{D_CP_dat10} \cdot V_{gs}$

$I_{D_C7}(V_{gs}) := I_{D_C7_dat10} \cdot V_{gs}$

$I_{D_C3}(V_{gs}) := I_{D_C3_dat10} V_{gs}$

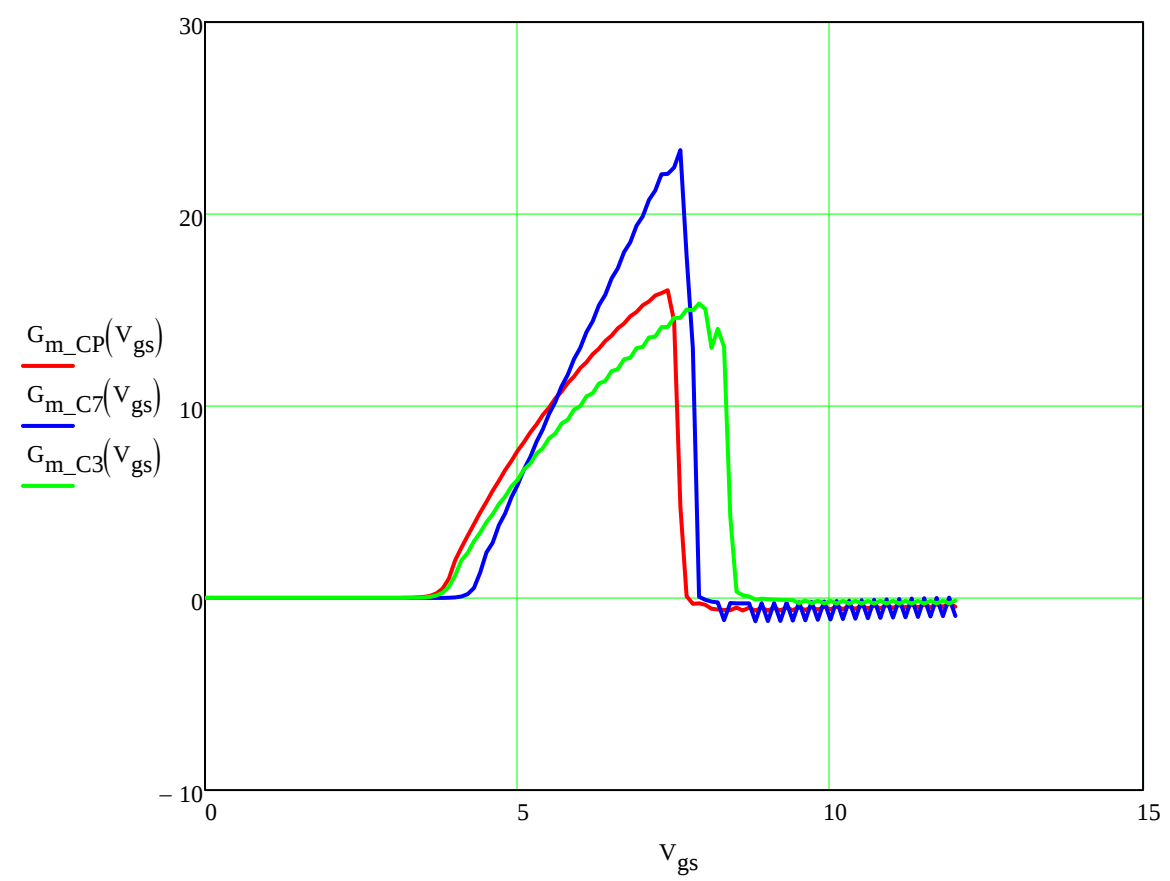
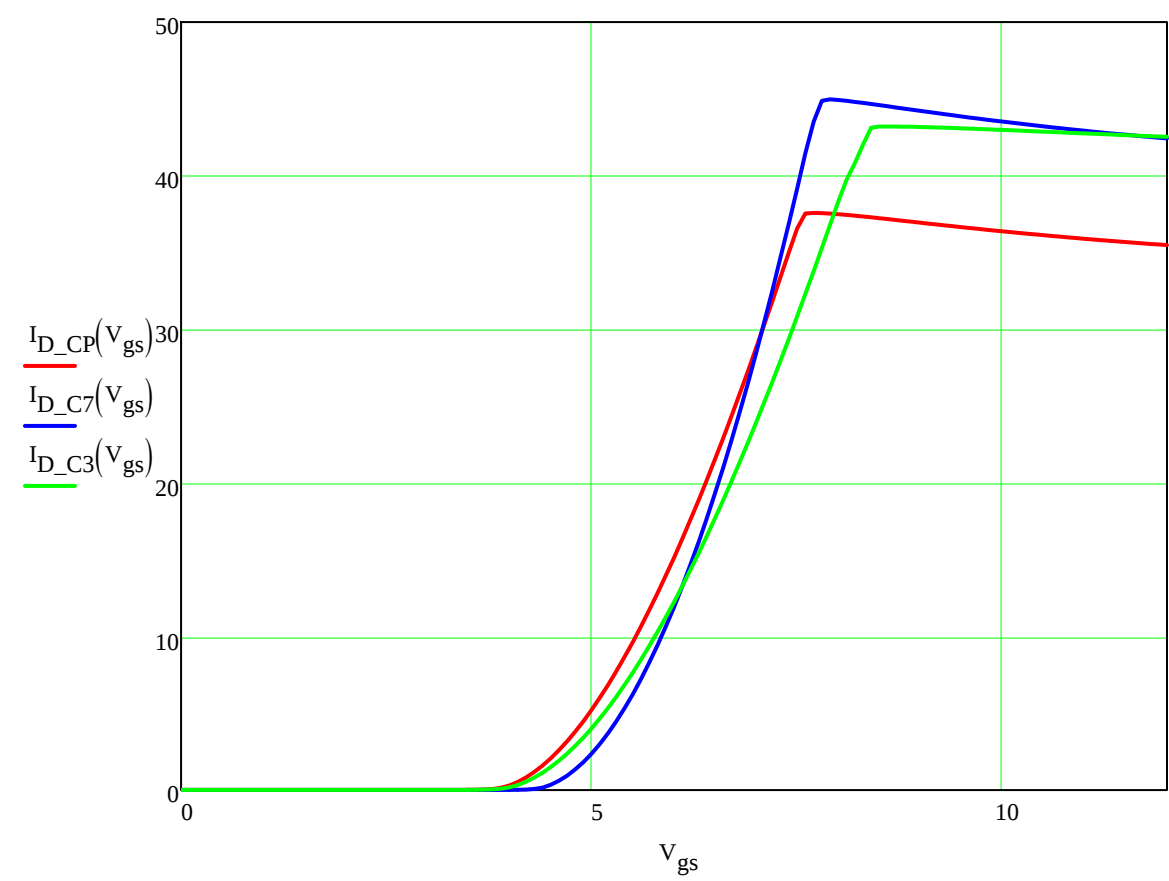
Convert for easier plotting

$G_{m_CP}(V_{gs}) := G_{m_CP_dat10} V_{gs}$

$G_{m_C7}(V_{gs}) := G_{m_C7_dat10} V_{gs}$

$G_{m_C3}(V_{gs}) := G_{m_C3_dat10} V_{gs}$

Plot the transfer characteristics and gains



CrssC3_dat :=

	0
0	...

CrssC7_dat :=

	0
0	...

CrssCP_dat :=

	0
0	...

Import Crss data from simulation test bench

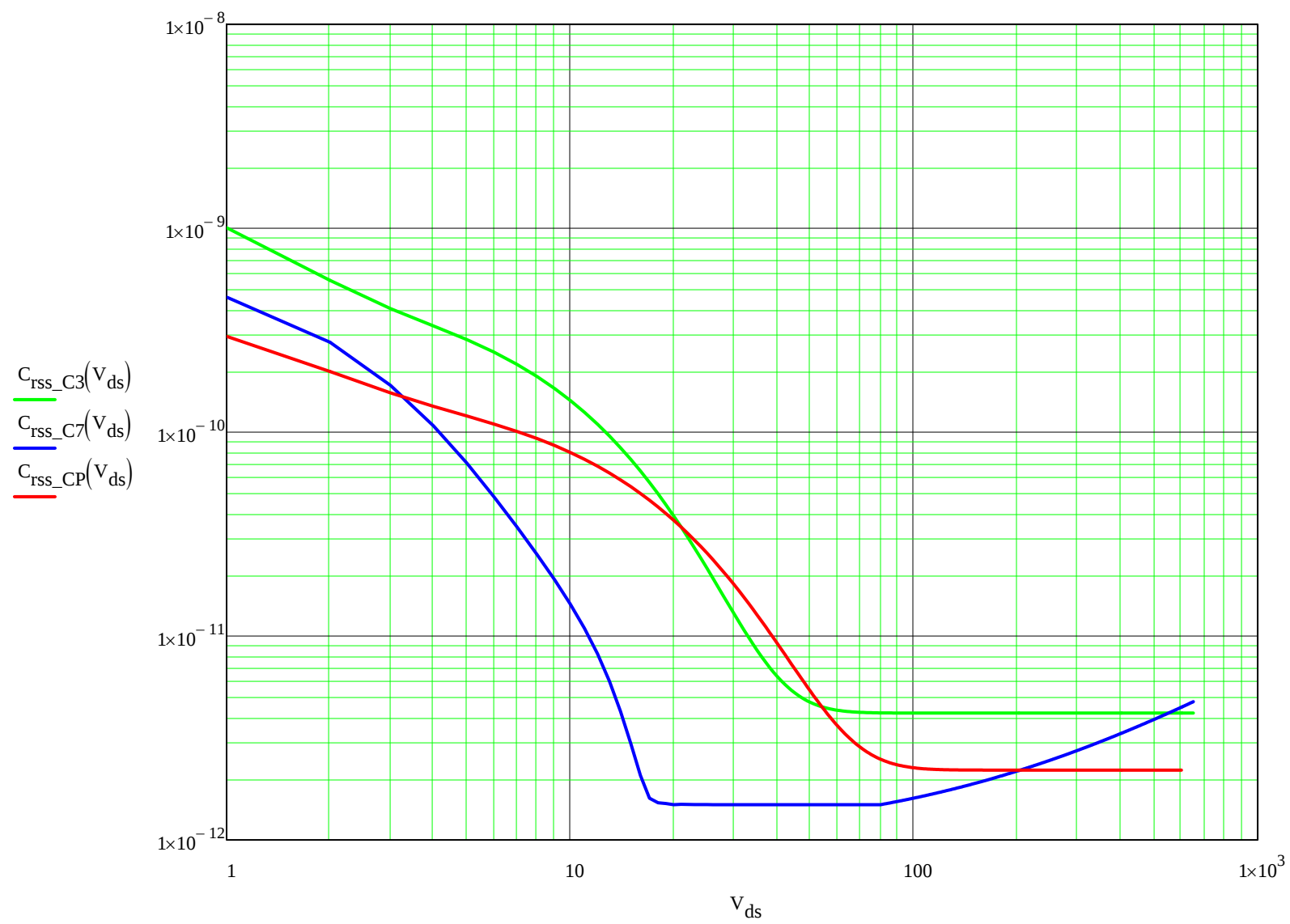
$V_{ds} := 0, 1 \dots 650$

$C_{rss_C3}(V_{ds}) := CrssC3_dat_{V_{ds}}$

$C_{rss_C7}(V_{ds}) := CrssC7_dat_{V_{ds}}$

$C_{rss_CP}(V_{ds}) := CrssCP_dat_{V_{ds}}$

Convert for easier plotting



Plot Crss vs. Vds for different families of CoolMOS