Assignment 9 Art of Compact Modeling E3 225

- 1. Plot Surface Potential as a function of X (along the channel, from source to drain) at a given V_G , for $V_{DS} \ge 0$.
- 2. Plot Terminal Charges (Q_G,Q_D,Q_S,Q_B) as function of V_G , at high and low V_D .
- 3. Plot Transcapacitances (C_{gg} , C_{dg} , C_{sg} , C_{bg}) as function of V_G , at high and low V_D .
- 4. Plot Inversion Charge Density as a function of V_G , using EKV and Surface Potential Based model and compare.