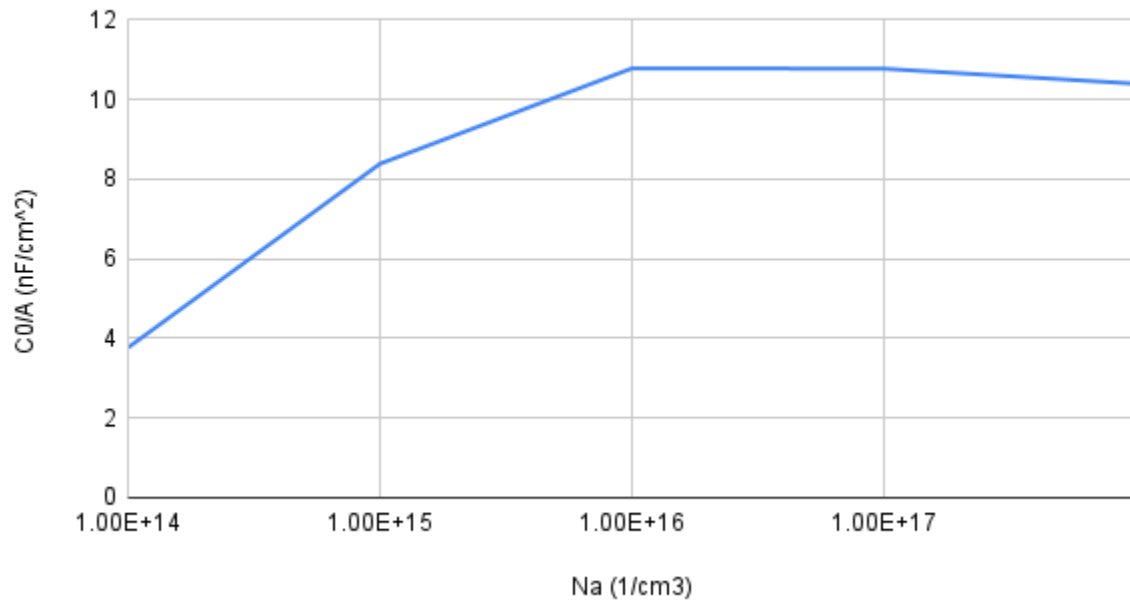
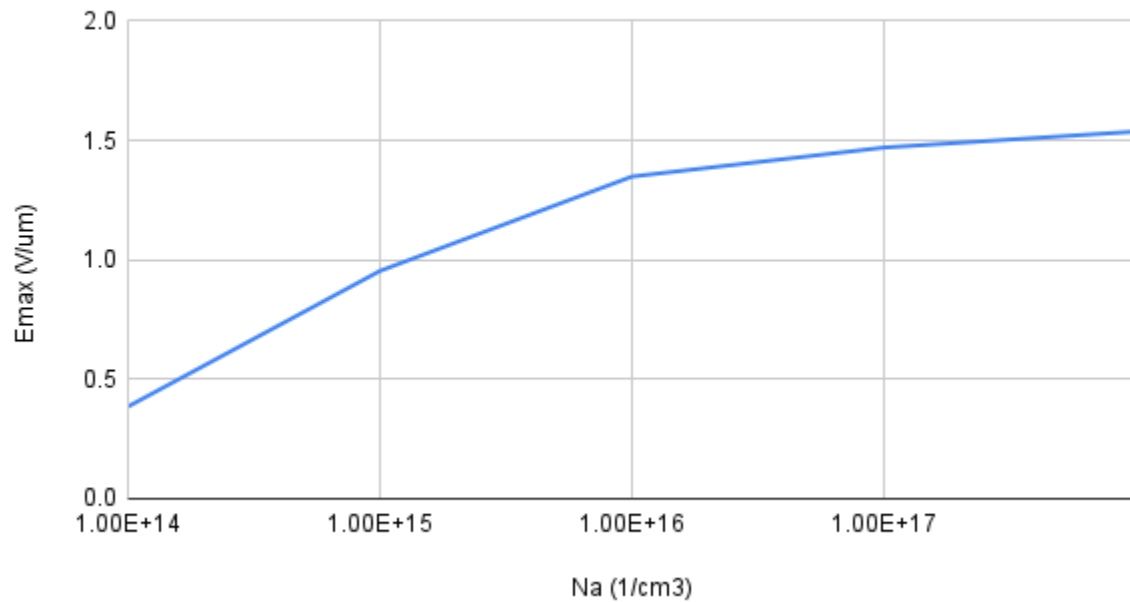


# Dependence on Doping Conc

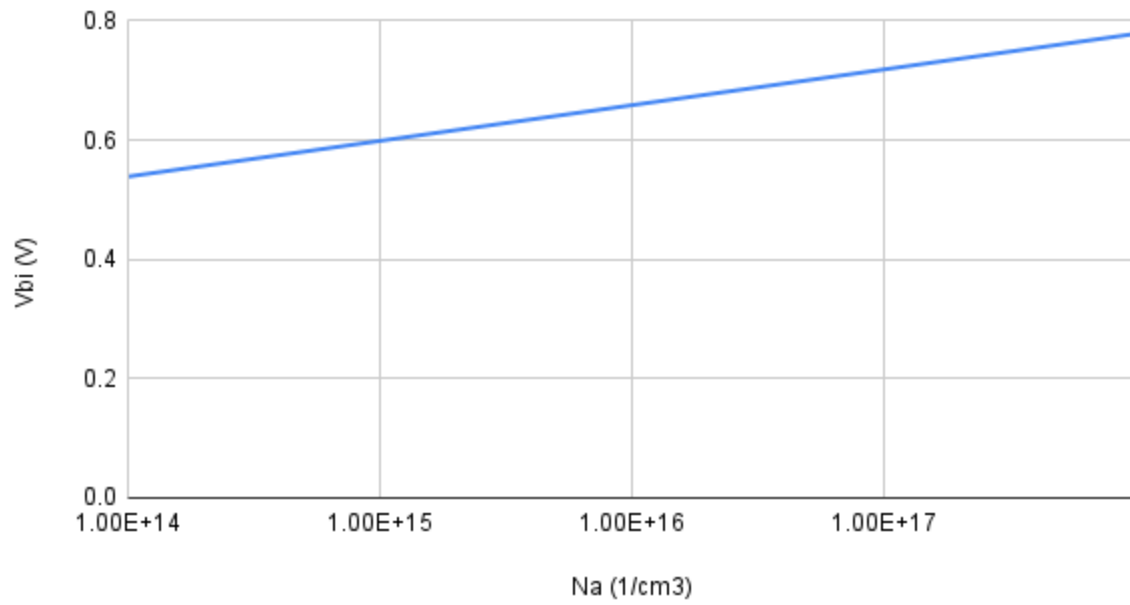
$C0/A$  (nF/cm<sup>2</sup>) vs.  $N_A$  (1/cm<sup>3</sup>)



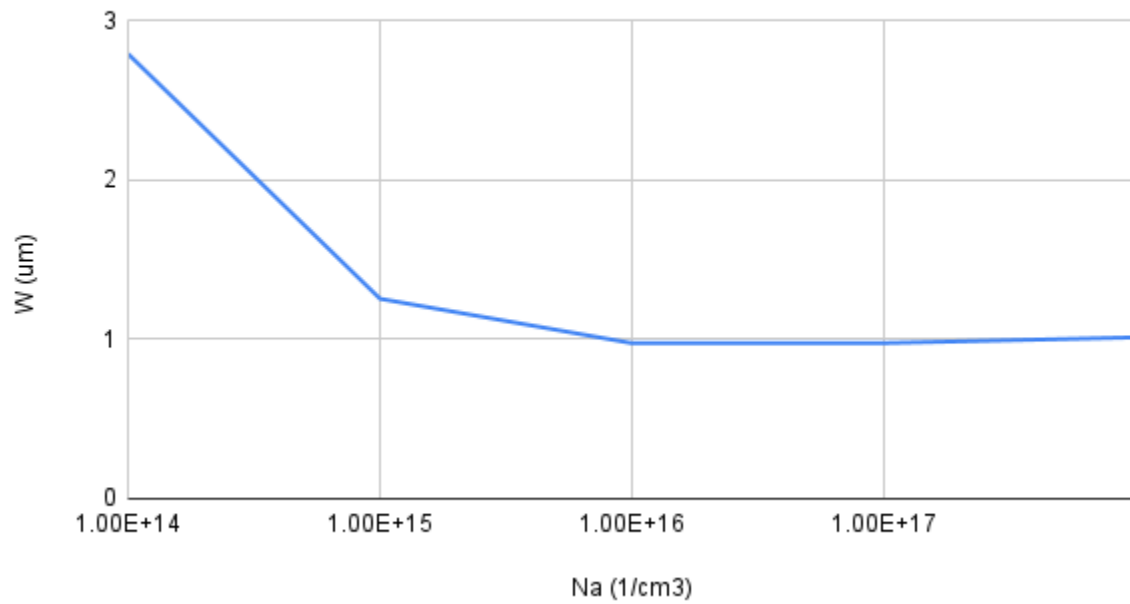
$E_{max}$  (V/ $\mu$ m) vs.  $N_A$  (1/cm<sup>3</sup>)



$V_{bi}$  (V) vs.  $N_a$  (1/cm<sup>3</sup>)

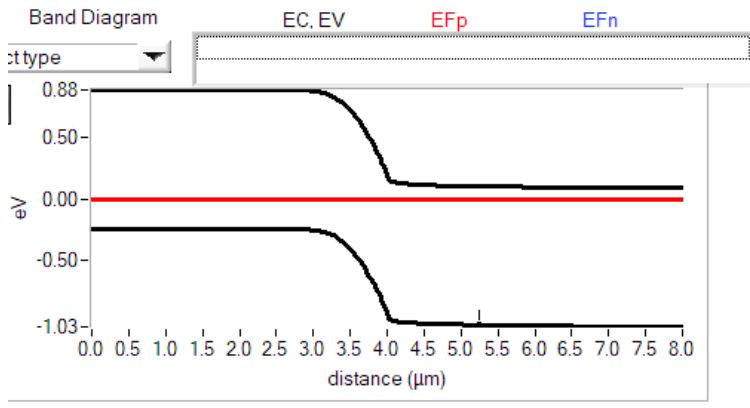


$W$  ( $\mu$ m) vs.  $N_a$  (1/cm<sup>3</sup>)

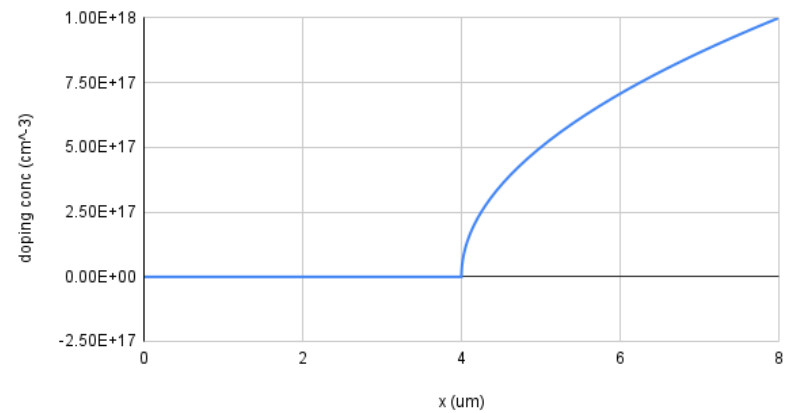


## Part 2

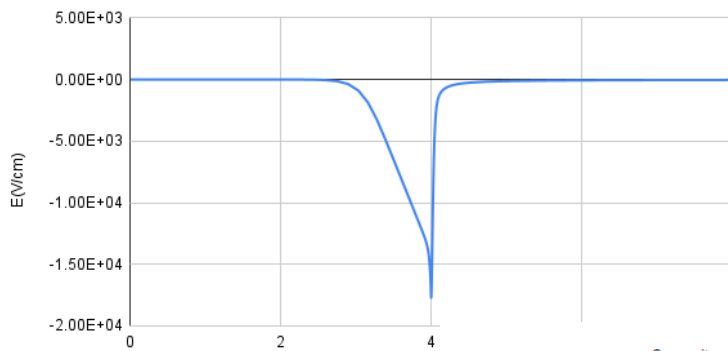
(i)  $m = 0.5$



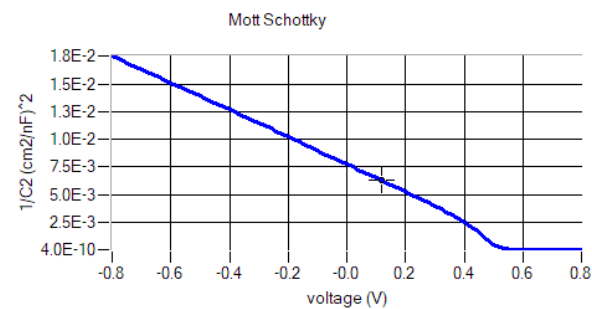
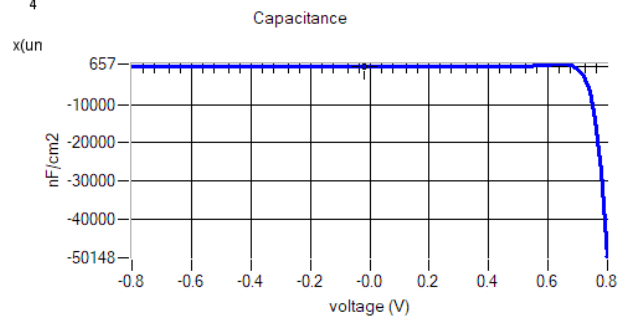
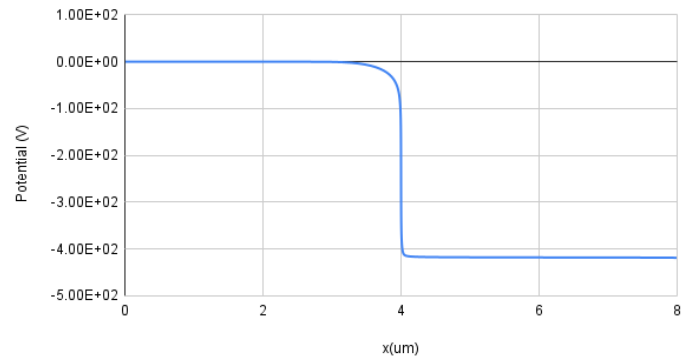
Doping profile



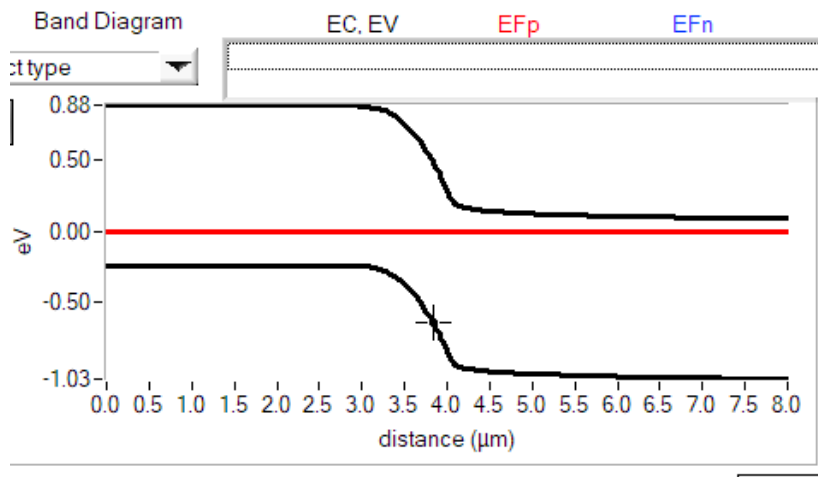
Electric Field Profile



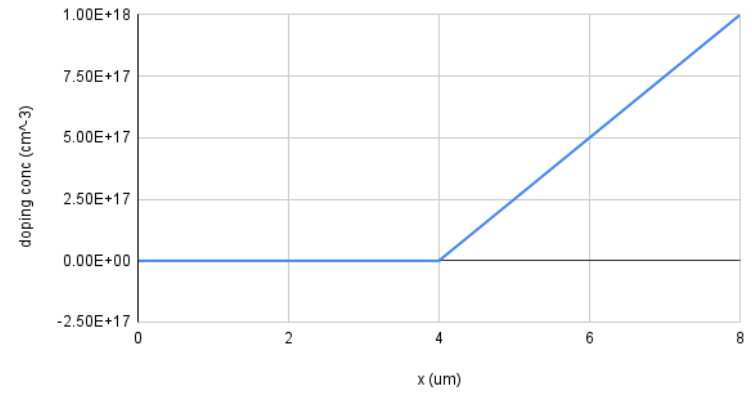
Potential Profile



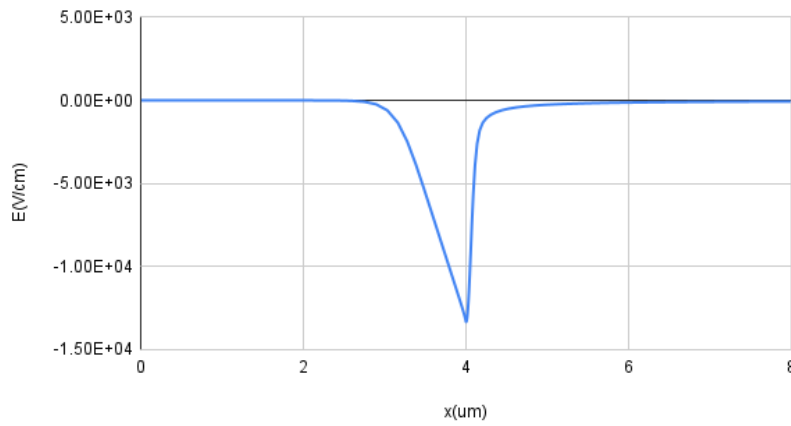
(ii)  $m = 1$



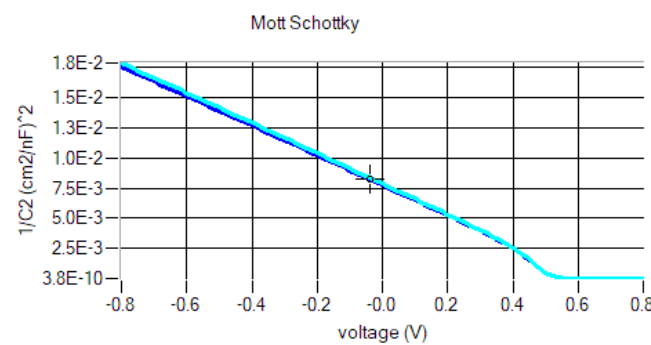
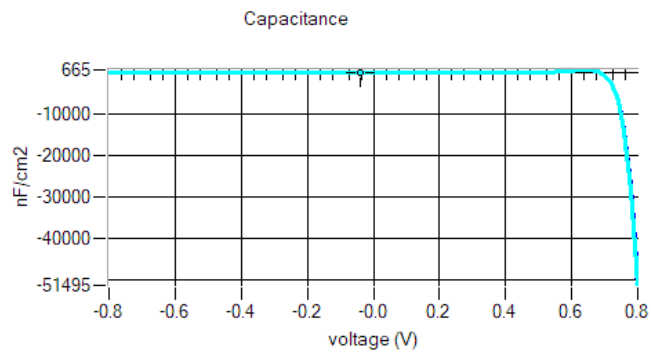
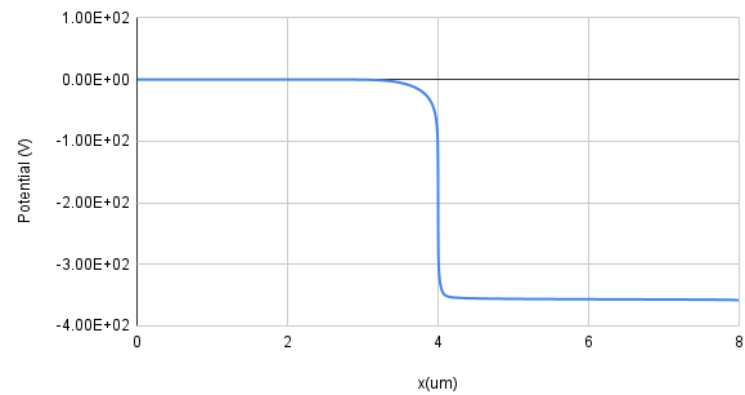
Doping profile



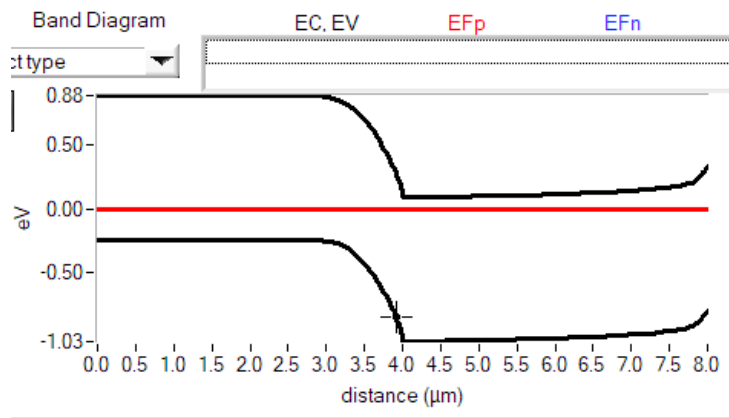
Electric Field Profile



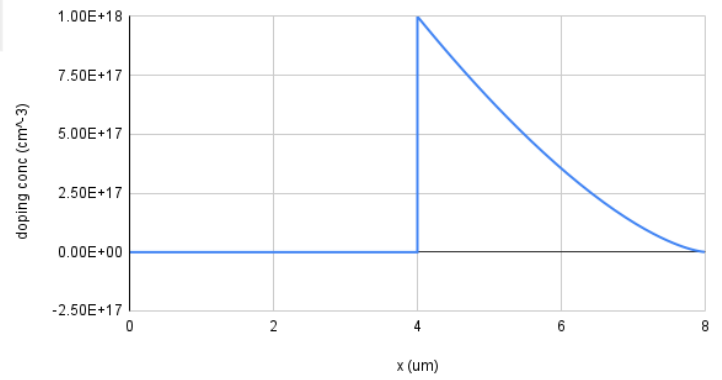
Potential Profile



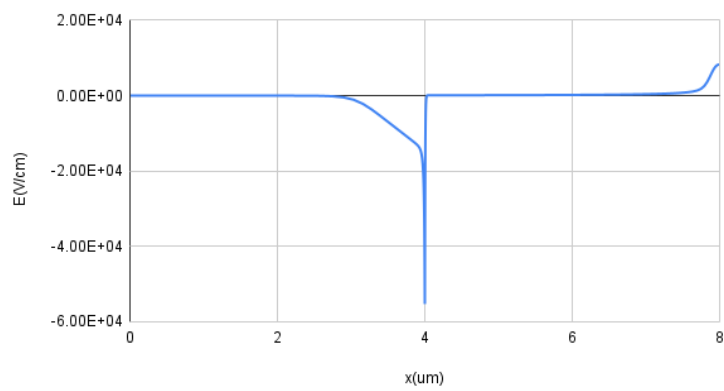
(ii)  $m = -1.5$



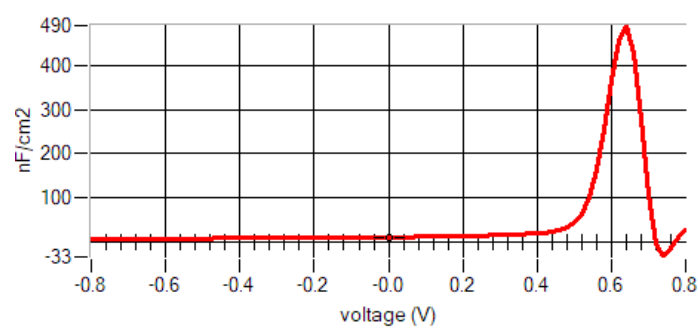
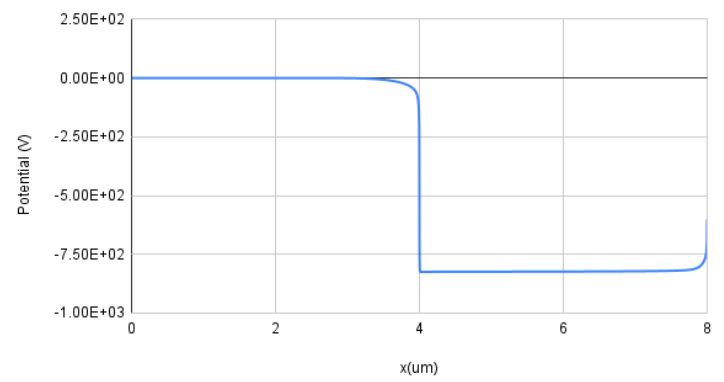
Doping profile



Electric Field Profile



Potential Profile



Mott Schottky

