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        "from IPython.display import display,Markdown,Latex\n",
        "\n",
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        "q      = 1.6e-19 # [C] Unidad de carga eléctrica\n",
        "k      = 1.38e-23 # [J/K] Constante de Boltzmann\n",
        "eps0   = 8.85e-14 # [F/cm] Permitividad eléctrica en el vacío\n",
        "c0     = 3e10    # [cm/s] velocidad de la luz en el vacío\n",
        "h      = 6.623e-34 # [J/s] Constante de Planck\n",
        "m0     = 9.1e-31  # [kg] masa del electrón en reposo\n",
        "Vtha   = k*300/q  # [V] voltaje térmico @ 300 K"
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    "NSi     = 5e22          # [m^3] Átomos por unidad de volumen\n",
    "rhoSi    = 2.33         # [g/cm^3] densidad\n",
    "EgSi     = 1.12         # [eV] energía de banda prohibida\n",
    "niSi     = 1e10         # [m^3] concentración intrínseca\n",
    "munSi    = 1430; mupSi = 480 # [cm^2/Vs] movilidad para ni >> Nd,a\n",
    "ErupSi   = 3e5          # [V/cm] Campo eléctrico para ruptura dieléctrica\n",
    "kapaSi   = 1.5          # [W/cm°C] conductividad térmica\n",
    "CpSi     = 0.7          # [J/gK] Calor específico \n",
    "DthSi    = 0.87         # [cm^2/s] Difusividad térmica\n",
    "epsSi    = 11.7*eps0    # [F/cm] Permitividad eléctrica\n",
    "nSi      = 3.44         # índice de refracción \n",
    "chiSi    = 4.05         # [eV] Afinidad electrónica\n",
    "men      = 0.867*m0; meng = 1.08*m0*1.07 # [kg] masa efectiva electrones para cálculo en conductividad
y densidad, respectivamente.\n",
    "mep      = 1.156*m0; mepg = 0.81*m0*1.07 # [kg] masa efectiva huecos para cálculo en conductividad y
densidad, respectivamente."
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    "NSi02     = 2.3e22       # [cm^3] Átomos por unidad de volumen\n",
    "rhoSi02    = 2.27        # [g/cm^3] densidad\n",
    "EgSi02     = 3.9         # [eV] energía de banda prohibida\n",
    "munSi02    = 20; mupSi02 = 1e-8 # [cm^2/Vs] \n",
    "ErupSi02   = 1e7         # [V/cm] Campo eléctrico para ruptura dieléctrica (es mayor a este
valor!!!)\n",
    "kapaSi02   = 0.014       # [W/cm°C] conductividad térmica\n",
    "CpSi02     = 1.0         # [J/gK] Calor específico \n",
    "DthSi02    = 0.006       # [cm^2/s] Difusividad térmica\n",
    "epsSi02    = 3.9*eps0    # [F/cm] Permitividad eléctrica\n",
    "nSi02      = 1.46        # índice de refracción \n",
    "chiSi02    = 1.0         # [eV] Afinidad electrónica"
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    "tox       = 20e-7 # Espesor de Óxido [cm]\n",
    "phi_Al    = 4.10 # Función trabajo del Aluminio [eV]\n",
    "T         = 300  # Temperatura en Kelvin\n",
    "Vth       = k*T/q # [V] voltaje térmico\n",
    "Cox       = epsSi02/tox\n"
]

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"mu_eff = 800      # cm2/(Vs)\n",
"WoverL = 1"
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"Nv = 2*(2*np.pi*mep*k*T/h**2)**(3/2) * 1e-6\n",
"\n",
"ni_ab = np.sqrt(Nc*Nv)*np.exp(-EgSi*q/(2*k*T))\n",
"ni = ni_ab"
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"-2 x psi_B = 0.798 V\n",
"VFB        = -0.909 V\n",
"gamma      = 0.746 \\sqrt{V}\n",
"gamma^2    = 0.556 V\n",
"VT         = 0.555 V\n",
"m          = 1.417\n"
]
}
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"source": [
"psi_B = -Vtha*np.log(Na/ni_ab)\n",
"phi_s = chiSi + EgSi/2 - psi_B\n",
"psi_bi = phi_s - phi_Al\n",
"VFB = -psi_bi\n",
"gamma = np.sqrt(2*q*Na*epsSi)/Cox\n",
"VT = VFB - 2*psi_B + gamma*np.sqrt(-2*psi_B)\n",
"m = 1+gamma/2/np.sqrt(-2*psi_B);\n",
"\n",
"\n",
"print('psi_B      = ', '%.3g' % psi_B, 'V')\n",
"print('-2 x psi_B = ', '%.3g' % (-2*psi_B), 'V')\n",
"print('VFB        = ', '%.3g' % VFB, 'V')\n",
"print('gamma      = ', '%.3g' % gamma, '\\sqrt{V}')\n",
"print('gamma^2    = ', '%.3g' % gamma**2, 'V')\n",
"print('VT         = ', '%.3g' % VT, 'V')\n",
"print('m          = ', '%.4g' % m)"
]
}
]

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Vth*gamma*np.sqrt(psi_sd);\n",
"    ids = (Vgs - VFB + Vth)*psi_ss - .5*psi_ss**2 - 2/3 * gamma * psi_ss**1.5 +
Vth*gamma*np.sqrt(psi_ss);\n",
"    return mu*Cox*WoverL*(idd-ids)"
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"Vdso = 0;\n",
"Vdsf = 5;\n",
"NVds = 5001;\n",
"dVds = (Vdsf-Vdso)/(NVds-1);\n",
"Vds = np.linspace(Vdso,Vdsf,NVds);    # [V]"
]
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"psi_sd = np.zeros((Vds.size,Vgs.size));\n",
"Id_num = np.zeros((Vds.size,Vgs.size));\n",
"psi_so = np.linspace(-2*psi_B,-psi_B,5001)\n",
"\n",
"j=0;\n",
"for Vg in Vgs:\n",
"    psi_ss[j] = calc_psi_s(Vg,0,-2*psi_B,1e-6,VFB,Cox,Na,ni,epsSi,Vth);\n",
"    i=0;\n",
"    for V in Vds:\n",
"        psi_sd[i,j] = calc_psi_s(Vg,V,psi_so[i],1e-6,VFB,Cox,Na,ni,epsSi,Vth)\n",
"        Id_num[i,j] = calc_id(Vg,psi_ss[j], psi_sd[i,j],VFB,Cox,gamma,Vth,mu_eff,WoverL)\n",
"        i += 1;\n",
"    j += 1;"
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"plt.figure()\n",
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```
"labels = [];\n",
```

```
"for V in Vgs:\n",
```

```
"    labels.append(\"$V_{gs} = $" + f\"{V:.2g}V\");\n",
```

```
"plt.plot(Vds,d2psi_s,label=labels);\n",
```

```
"plt.xlabel('$V_{ds}$ [V]')\n",
```

```
"plt.ylabel('$d^2\\psi_{sd}/dV_{ds}^2$')\n",
```

```
"plt.grid(linestyle='--')\n",
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"plt.legend();"
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"# Elegimos una de las curvas para hacer la comparación\n",
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"n = 2;\n",
```

```
"Vgs = Vgs[n];\n",
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```
"Id_num = Id_num[:,n];\n",
```

```
"d2psi_s = d2psi_s[:,n];"
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"Vdssat_num = Vds[np.argmin(d2psi_s)];\n",
```

```
"Idsat_num = Id_num[np.argmin(d2psi_s)];\n",
```

```
"\n",
```

```
"print \"(Idsat ; Vds(sat)) = (\", \"%3g\" % Idsat_num, \";\", \"\", Vdssat_num, \")\";"
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```
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52/85

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"Idsat2 = mu_eff*Cox*WoverL*(Vgs-VT)**2/2/m;\n",
"Idlin2 = mu_eff*Cox*WoverL*((Vgs-VT)*Vds-m/2*Vds**2);\n",
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