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    "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 # indice de refracción \n",
```

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"chiSi = 4.05 # [eV] Afinidad electrónica\n",
    "men = 0.867*m0; meng = 1.08*m0*1.07 # [kg] masa efectiva de 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
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    "rhoSiO2 = 2.27 \# [g/cm^3] densidad\n",
    "EgSiO2 = 3.9 # [eV] energía de banda prohibida\n",
    "munSiO2 = 20; mupSiO2 = 1e-8 \# [cm^2/Vs] \n",
    "ErupSiO2 = 1e7 # [V/cm] Campo eléctrico para ruptura dieléctrica (es mayor a este
valor!!!)\n",
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    "epsSiO2 = 3.9*epsO # [F/cm] Permitividad eléctrica\n",
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    "Ev = np.linspace(Evmin,Evmax,nE)\n",
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    " fc = 1/(1+np.exp((Ec-Efn[i])*q/(k*T)))\n",
    " n0sa[i] = np.trapz(fc*gc2,Ec*q)*1e-6\n",
    " fv = 1-1/(1+np.exp((Ev-Efp[i])*q/(k*T)))\n",
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