Applied Quantum Mechanics Homework #5, due Wed Feb 13, 2008

A 3nm layer of AlGaAs is buried in a GaAs material. This layer forms a potential barrier inside the GaAs as shown below:



Using Transmission Matrix Method, write a MATLAB code to plot the transmission probability versus energy, T(E), for an electron moving across the AlGaAs region. Assume the effective mass of electron is similar in all regions and is equal to 0.063^*m_e .