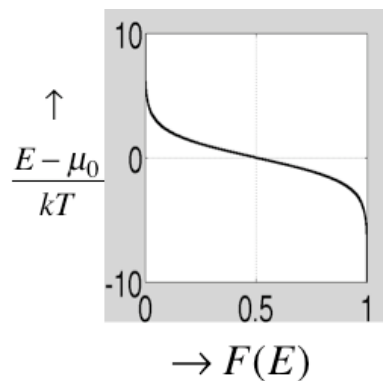


1.2. Two Key Concepts**1.2a.** The function $F(E)$ shown here is(a) the Fermi function, $f_0(E)$ (b) $1 - f_0(E)$ (c) $1 + f_0(E)$ (d) $kT \ln f_0 / \ln E$ (e) $-kT \ln f_0 / \ln E$ **1.2b.** The density of states in two contacts are shown:

Contact A is otherwise identical to contact B, but is at a different potential which causes them to be vertically displaced with respect to each other:

(a) A is positive relative to B

so that electron energies are higher

(b) A is positive relative to B

so that electron energies are lower

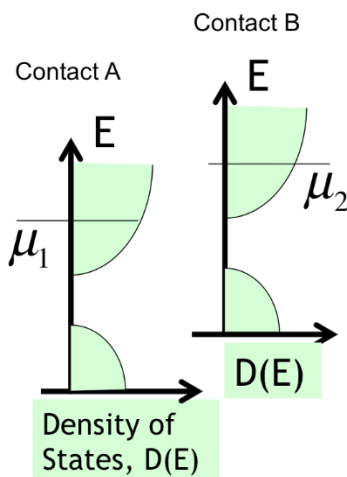
(c) B is positive relative to A

so that electron energies are lower

(d) B is positive relative to A

so that electron energies are higher

(e) None of the above



displaced with respect to