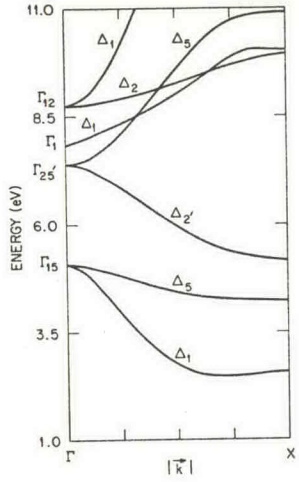

Figure 3. Results for SmTe using α = 0.844 and lattice parameter of 12.09 a.u. The f-states for this are centered at 0.98 eV. All energies relative to the V_o value of -1.153 ry.

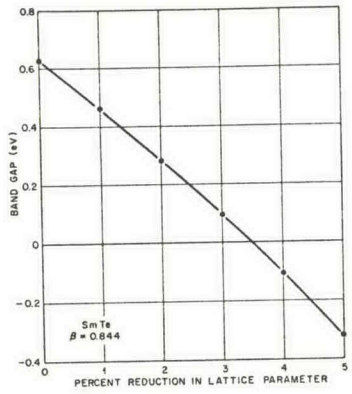

Figure 4. Band gap for SmTe as a function of percent reduction in lattice parameter from the normal value of 12.46 a.u.

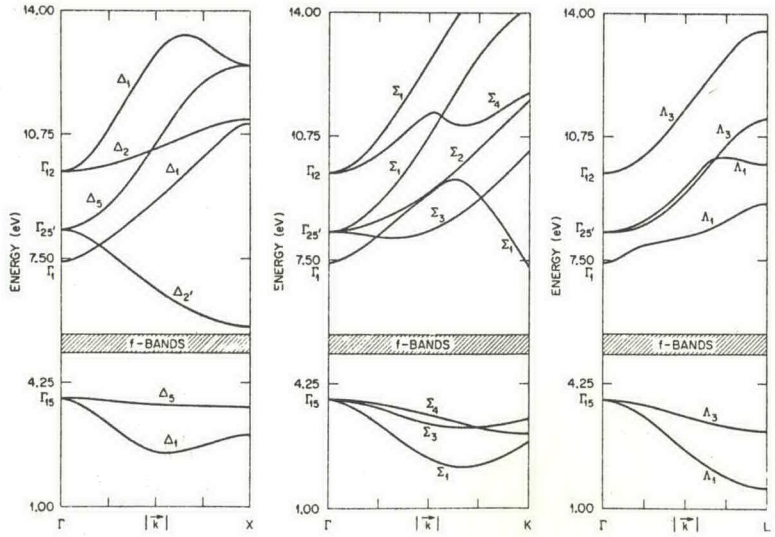

Figure 5. Calculated band structure for SmS using α = 0.781 and a lattice parameter of 11.28 a.u. All energies are relative to the V_o value of -1.152 ry.