

Figure 1. Some illustrative examples of variations in electronic band structures as calculated for the rare-earth mononictides and monochalcogenides. These plots are for  $\bar{K}$  along the  $\langle 100 \rangle$  direction.

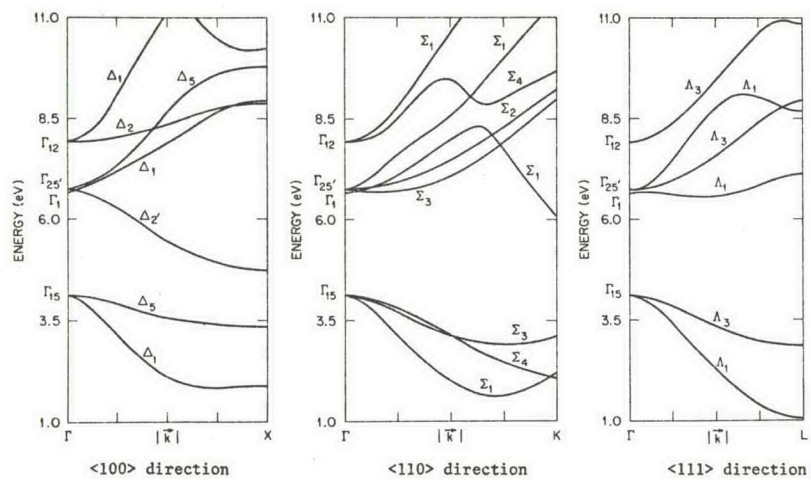


Figure 2. Calculated band structure for SmTe using an exchange multiplier of  $\alpha = 0.844$  and lattice parameter = 12.46 a.u. The f-states for this calculation were below the valence band at -0.22 eV. All energies are relative to the constant value of the potential between the muffin-tin spheres  $V_0 = -1.058$  ry.