

Answer on Question #51445, Physics, Solid State Physics

Write down the spectral terms for the ground states of 25Mn and 38Sr.

Answer:

Atomic Data for Manganese (Mn)

Atomic Number = 25

Ground State $1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^2 {}^6S_{5/2}$

Atomic Data for Strontium (Sr)

Atomic Number = 38

Ground State $1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 5s^2 {}^1S_0$