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Also $J = L + S = 7/2$. Hence the ground state is $8S7/2$. b. Yb^{++} has 13 electrons in the f shell, leaving one hole in the otherwise filled shell. Thus $L = 3$, $S = 1/2$, $J = 7/2$ -- we add S to L if the shell is more than half-filled. The ground state symbol is $2F7/2$. c. Tb^{++} has 8 f electrons, or one more than Eu^{++} . Thus $L = 3$; $S = 7/2 - 1/2 = 3$; and $J = 6$.

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Charles Kittel did his undergraduate work in physics at M.I.T and at the Cavendish Laboratory of Cambridge University. He received his Ph.D. from the University of Wisconsin. He worked in the solid state group at Bell Laboratories, along with Bardeen and Shockley, leaving to start the theoretical ...

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