

CHEM 2C, Assignment 4, posted 4/23, due 5/5, in class

1. Look at the PDF file of the periodic table on the course website and use it to identify all atoms in the periodic table that show some unusual pattern of electron filling. An example of such an atom is Cr. (Note: In this table, $2p^1$ is written $2p$, $5d^1$ is written $5d$ etc.).
2. 2.2 (consider ionic size and, consequently, the distance d between ions, which goes in the denominator for the expression).
3. 2.4 (likewise)
4. 2.8
5. 2.12
6. 2.16
7. 2.20
8. 2.24
9. 2.28
10. 2.32
11. 2.36
12. 2.40
13. 2.44
14. 2.48
15. 2.52
16. 2.56
17. 2.60
18. 2.64
19. 2.70
20. 2.74
21. 2.78
22. 2.82

Please remember to present all steps toward the solution.