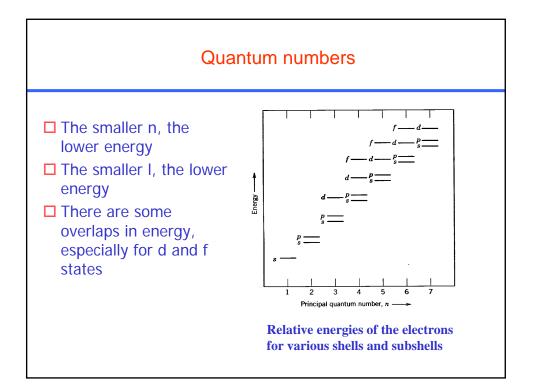
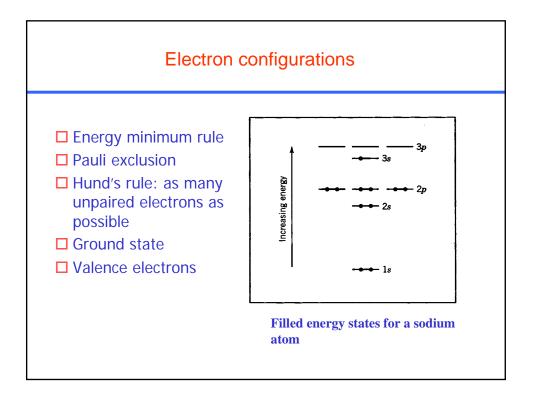
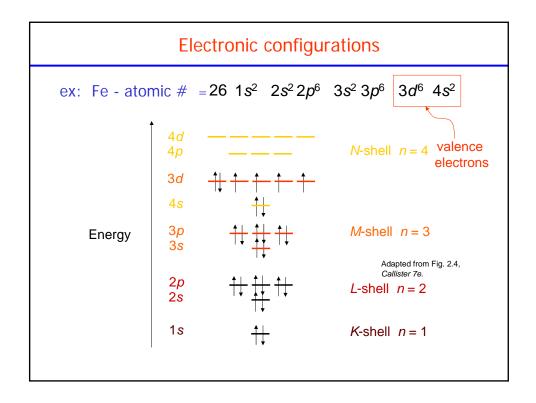
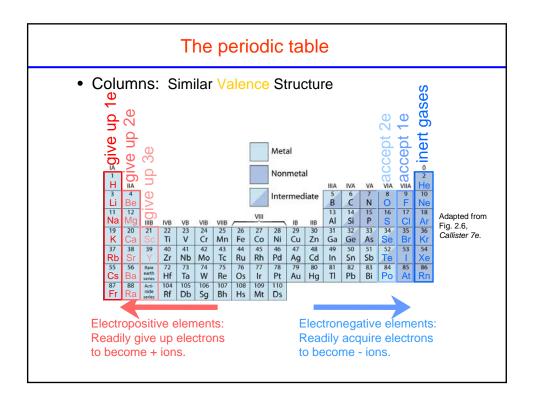


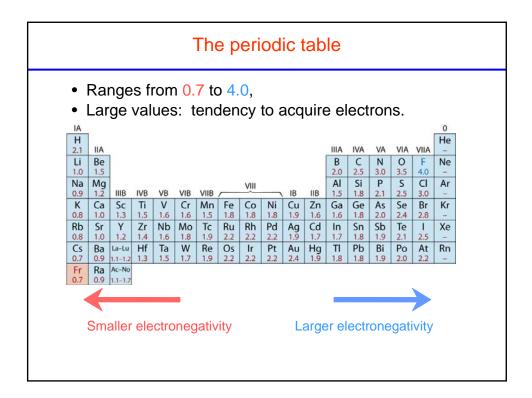
| | | (| Quantu | ım nun | nbers | | |
|------|--|---|---|---|---|--|-------|
| | | · · | | | 2; K, L, I | | |
| | | | | | 1; subshe | ell, s, p, o | d, or |
| f; | the sha | ape of the | e electro | n subst | nell | | |
| | | | | 1/0 | | | |
| ⊔ Sp | | nent ms ? | | | | | |
| ⊔Sp | Table 2.1 Electron SI Principal Quantum | The Number o rells and Subsl Shell | of Available E hells | Electron Stat | es in Some of the second se | Electrons | |
| ∟ Sp | Table 2.1 Electron SI Principal Quantum Number n | The Number of nells and Subsl Shell Designation | of Available F hells Subshells | Electron Stat Number of States | Number of I Per Subshell | Electrons Per Shell | |
| ⊐ S¢ | Table 2.1Electron SIPrincipalQuantumNumber n1 | The Number o nells and Subsl Shell Designation K | of Available E hells <u>Subshells</u> s | Electron Stat | Number of 1 Per Subshell 2 | Electrons Per Shell 2 | |
| ⊔ S¢ | Table 2.1 Electron SI Principal Quantum Number n | The Number of nells and Subsl Shell Designation | of Available F hells Subshells | Electron Stat Number of States | Number of I Per Subshell | Electrons Per Shell | |
| ⊐ Sk | Table 2.1Electron SIPrincipalQuantumNumber n12 | The Number o tells and Subsl Shell Designation K L | of Available E hells <u>Subshells</u> s s | Electron Stat | Number of J Per Subshell 2 2 6 2 | Electrons Per Shell 2 8 | |
| ⊐ Sk | Table 2.1Electron SIPrincipalQuantumNumber n1 | The Number o nells and Subsl Shell Designation K | of Available E hells <u>Subshells</u> s p s p | Number of States | Number of A Per Subshell 2 6 2 6 2 6 | Electrons Per Shell 2 | |
| ⊐ Sk | Table 2.1Electron SIPrincipalQuantumNumber n12 | The Number o tells and Subsl Shell Designation K L | of Available E hells <u>Subshells</u> s p s | Electron Stat | Number of A Per Subshell 2 6 2 6 10 | Electrons Per Shell 2 8 | |
| ⊔ S¢ | Table 2.1Electron SIPrincipalQuantumNumber n123 | The Number of tells and Subsl Shell Designation K L M | of Available E hells <u>Subshells</u> s s P s p d d s | Electron Stat Number of States 1 1 3 1 3 5 1 | Number of 1 Per Subshell 2 6 2 6 10 2 | Electrons Per Shell 2 8 18 | |
| ⊔ S¢ | Table 2.1Electron SIPrincipalQuantumNumber n12 | The Number o tells and Subsl Shell Designation K L | of Available E hells <u>Subshells</u> s p s p | Number of States | Number of A Per Subshell 2 6 2 6 10 | Electrons Per Shell 2 8 | |

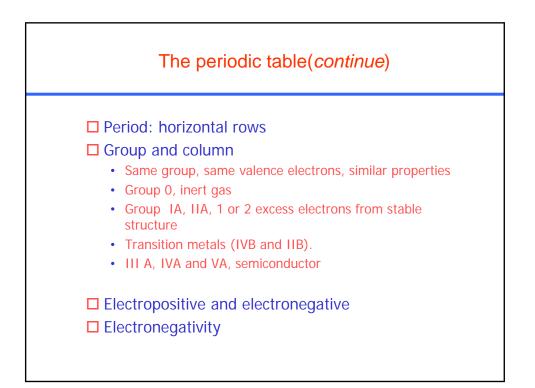


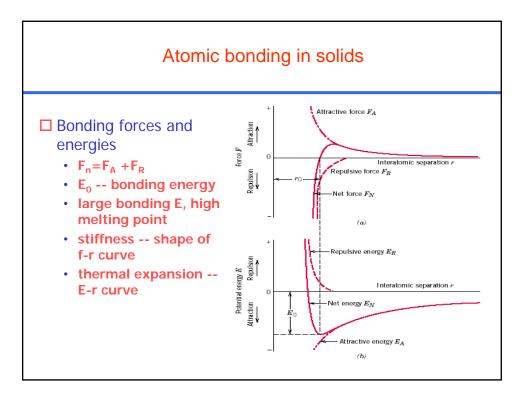


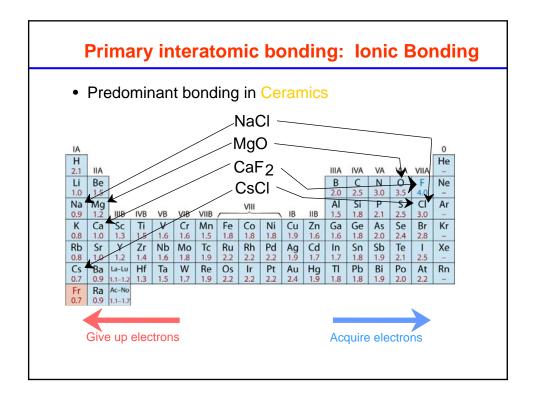


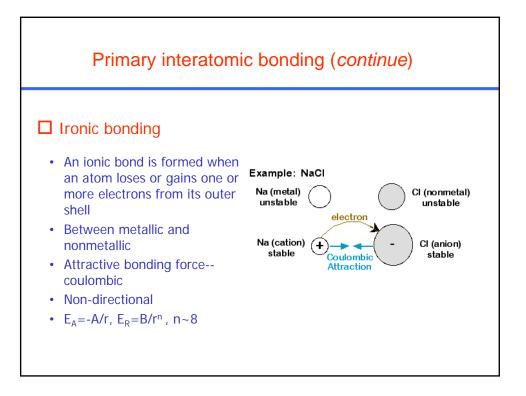


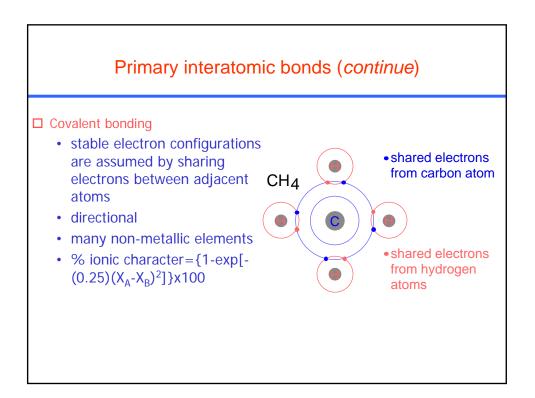


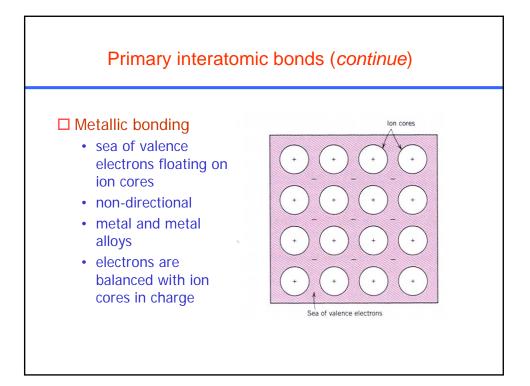


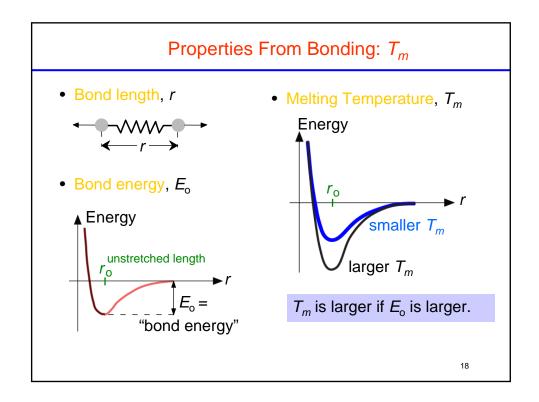












| Summary: Bonding | | | | | | |
|------------------|---|---|--|--|--|--|
| Туре | Bond Energy | Comments | | | | |
| lonic | Large! | Nondirectional (ceramics) | | | | |
| Covalent | Variable large-Diamond small-Bismuth | Directional (semiconductors, ceramics polymer chains) | | | | |
| Metallic | Variable large-Tungsten small-Mercury | Nondirectional (metals) | | | | |
| Secondary | smallest | Directional inter-chain (polymer) inter-molecular | | | | |

