

Things You Should Know

Chapters 10: Atomic Term Symbols and Coupling of Angular Momentum

Be able to define the following terms (using words, equations, or figures):

Atomic Term Symbol
Level

Configuration
Spin-orbit coupling

Concepts and Exercises:

1. Know how to determine the complete atomic term symbols for any electronic configuration. Be able to interpret physically the difference between the various terms.
2. Understand the justification for using the Russel-Saunders coupling scheme in terms of good quantum numbers.
3. Be able to do all the assigned exercises