Possible define and/or characterize for chapters 8 and 9

Perturbation theory

Trial function for *He*

Hartree-Fock approximation

Orbital

Self-Consistent Field

Correlation energy

Spin angular momentum

Antisymmetric wave function

Spin orbital

Slater Determinant

Fock Operator

Koopmans' theorem

Orbital energies

Atomic Term Symbol

Russell-Saunders coupling

Equivalent orbitals

Hund's rules

Spin-Orbit coupling

Born-Oppenheimer approximation

Born Oppenheimer Hamiltonian for H_2

Born Oppenheimer Hamiltonian for H_2^+

LCAO approximation

Overlap Integral

Coulomb Integral

Exchange Integral

Bonding/Antibonding orbital

u and g symmetry

Inversion operator

Bond order

Electron Configuration Photoelectron Spectra Equilibrium distance in diatomic Bond energy Which operators commute with the Born-Oppenheimer Hamiltonian for X_2 Dipole moment of a diatomic molecule