

Molecular Configuration Interaction Configuration Interaction wave function commutation cyclic permutation aggregates		confocal elliptical coordinate
<u>L</u> inear <u>C</u> ombination of <u>A</u> tomical <u>O</u> rbitals		atomic orbital exponent
optimize		Polarizability
<u>M</u> odified <u>N</u> eglect of <u>D</u> ifferential <u>O</u> verlap		<u>H</u> ighest <u>O</u> ccupied <u>M</u> O
<u>M</u> odified <u>I</u> ntermediate <u>N</u> eglect of <u>D</u> ifferential <u>O</u> verlap		nonbonding MO
Zero differential overlap		<u>G</u> aussian - <u>T</u> ype <u>O</u> rbital (GTO) atomic orbitals
Lewis dot structures		singly occupied
single configuration		hydrogen - like orbitals
double degeneracy		<u>L</u> owest <u>U</u> noccupied <u>M</u> O
Born - Oppenheimer Approximation	-	Core Electrons
exchange integral		antiparallel spin
overlap integral		electronic wave function
resonance integral		<u>I</u> ntermediate <u>N</u> eglect of <u>D</u> ifferential <u>O</u> verlap
four center integral		geometrical equilibrium virtual ()
		Coulombic Interaction
		Non-bonded interaction

ground electric state
 attractive state
 triplet state
 singlet state
 minimal basis set

molecular electronic
 motion

semi empirical
 Ab initio
 well - behaved

nodal properties plots

homogenous function
 diffuse function
 comparative study
 polarization functions
 spherical harmonics
 Symmetry Adopted
 Function
 Debye ()

closed - shell atoms
 open shell atom

covalent bond
 occupation number
 bent bonds

ion - pair
 gerade

:

$$\left\langle ij \left| \frac{1}{r_{\lambda\gamma}} \right| kl \right\rangle$$

Coulomb Integral
 Diatomic Differential
 Overlap

three - center integrals

$$\left\langle ij \left| \frac{1}{r_{\lambda\gamma}} \right| kj \right\rangle$$

spatial symmetry
 electron repulsion
 Born - Type repulsion
 hybridization

bound
 electron spin resonance
 coupling constants

character table
 symmetry
 multiplication table
 allyl radical
 biradical
 space par
 heteronuclear diatomics

effective potential
 half - wave potentials

stationary states

ROHF

Unrestricted Hartree-Fock, UHF

degrees of freedom
 delocalization
 orbital angular momentum
 electric dipole moment
 dipole moment
 permanent dipole moment
 instantaneous dipole moment
 induced dipole moment

fluctuating dipoles
 identity
 variation procedure
 iteration
 unitary transformation
 crossing
 dot product

scalar
 antisymmetric
 ungerade
 Non-localized

unique
 bonding MO
 antibonding MO
 hybrid orbital

Two-Dimensional
 Potential Energy
 Surface
 power series

effective nuclear charge
 boundary conditions
 geometry optimization
 resonance structure

directional character

direct product

electronic energy
 dispersion energy
 electron correlation energy
 strain energy
 bonding energy per electron

binding energy
 delocalization energy per electron

Zero - point energy
 Hartree - Fock energy

Complete Neglect of Differential OverlapSelf - Consistent Field method

minimization of the energy gradient
Restricted Open-Shell Hartree-Fock Method,

repulsive field	electron - affinity
average potential field	Euler's theorem
dipole field	Aufbau Principle
point group	pairing theorem
primitive Gaussians	chain rule
group	Contracted Basis
Split - Valence basis	Function
set	basis set
	extended basis set
determinant of the	Pauli Principle
coefficients	Brillouin's theorem
Slater determinant	principle of maximum
conjugated	overlap
center of symmetry	one - dimensional
center of mass	irreducible
doubly occupied	representation
Force Constant Matrix	antisymmetry principle
spectroscopy	Basis function
Photoelectron	<u>Double Zeta</u> basis set
Spectroscopy	
	London dispersion
secular equation	forces
cofactor	local minima
Van der Waal	
coefficient	electron density
variation parameters	
curvature	frozen core
free-valence index	
localized	ladder operators
fitting	Angular Momentum
harmonic oscillator	Operators
Energy Gradient	
Method	commutator
	paired
central field system	hermition
closed shell	symmetric
<u>M</u> olecule <u>O</u> rbital	
theory	

hyper virial theorem

Virial theorem

Valence Bond Theory

projection operator
theorem

critical points

valence bond model

Hartree ()

alternant
hydrocarbons

span