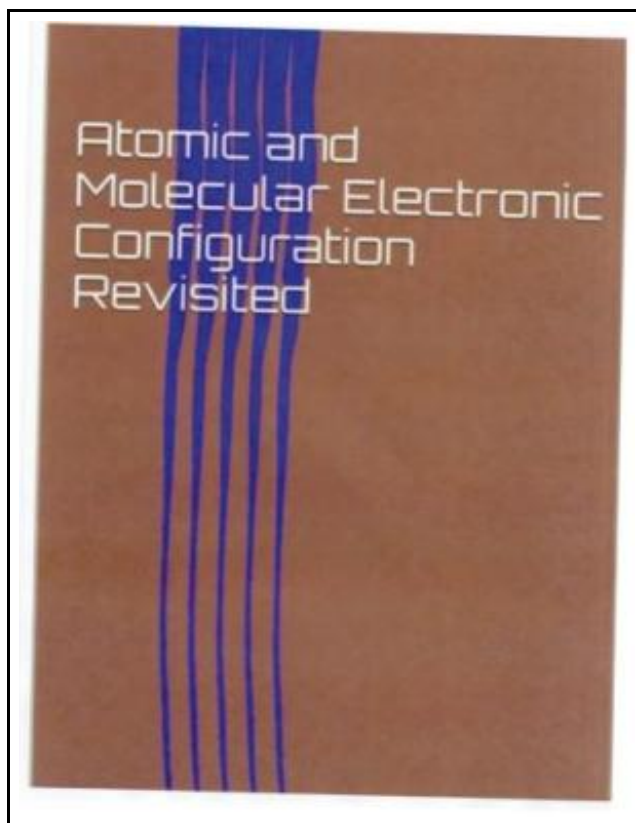


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ATOMIC AND MOLECULAR ELECTRONIC CONFIGURATION REVISITED (PAPERBACK)



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Createspace, United States, 2014. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.In AMEC, chapter one, you will find a structure for O₂ supported by both bond order and unpaired electron data. Previous attempts at providing an electronic structure for O₂ fails due to bond order, number of unpaired electrons, or oxygen atoms indicating five orbitals although four is the limit. Herein, you will find the newly described LONE P ORBITAL Pi BOND which is the solution not only for O₂ but also for NO and OF (uncharacterized?). The LPOP bond system is possible due to the small size and high electronegative character of the N, O and F atoms, which makes it related to H-Bonding. Diatomic structures involving row two periodic table elements (LiBe, Be₂, BeB, B₂, BC, C₂, CN, N₂, and F₂) are also presented. All structures are shown being formed by two methods: MRAE (Most Recently Added Electron) and LCAO (Linear Combination of Atomic Orbitals). Chapter one also includes a (Section III) MRAE Mechanistic Sequence For: NO⁺ > NO > O₂ > OF > F₂ (and F₂ > F⁻ + F⁰), (Section IV) Photographs of NO and O₂ molecular models, (Section V) MRAE-MO Energy Level diagrams for the diatomic structures listed above, and (Section VI) a MRAE-MO Energy-Level Diagrams Template, which is based on the cascade of changes in electronic distribution when an electron is forced onto a previous structure (MRAE), such as N₂ going to N₂⁻ and NO⁺ going to NO. Chapter 2 includes sections on hybridization and mechanism as it relates to polyatomic species. The following sequences are given: C + H > CH + H > CH₂ + H > CH₃ + H > CH₄ (saturated and tetrahedral arrangement) and N + H...



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