



Quantum Nanochemistry - Five Volume Set

Mihai V. Putz

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This new 5-volume set presents in a balanced yet progressive manner the fundamental and advanced concepts, principles, and models of quanta, atoms, molecules, solids, and crystal and chemical-biological interaction in cells. It also addresses the first and novel combinations and applications in modeling complex natural or designed phenomena. These new volumes by Dr. Putz embrace the best knowledge at the dawn of the twenty-first century of chemical bonding approaches while further advancing the chemical bonding approaches through the author's own progressive vision, which highlights the concept of bosonic-bondon in artificial chemistry.

The author approaches the systematics of atoms-in-molecule progressive modeling, in relation to chemical reactivity indices that are rooted in the electronegativity and chemical hardness prime chemical descriptors, with a refreshing and fruitful perspective. He considers the influence of chemical bonding and extends that to chemical-biological interaction in cells and organisms toward recording the biological activity. He covers the relevant connections with chemistry and atomic/molecular structures for the constituent particles/nodes in crystals and solids, including the hot topic of the propagation of defects on graphenes. The work is rigorously, thoughtfully, and analytically presented, with a flexible, instructive, and creative physical-chemical style of presentation and should be well understood by both physical and chemical communities in the nanosciences fields. These volumes will help to stimulate the creative power of the reader interested not just in knowing and understanding nature through the eyes of quantum theory but also in using the necessary know-how to predict and drive the quantum information, coined the nano-scale systems.

The multi-volume book uniquely features:

- A multi-level unitary approach (atoms, molecules, solids, and chemical-biological interaction in an interrelated conceptual and applicative presentation)
- Fresh quantum views and models of atomic stability and molecular reactivity
- A new theory of chemical bonding by bosonic-bondons
- The first path integral applications in quantum chemistry
- The first bondonic analysis for the graphenic topological defects

The volume largely achieves the Organization for Economic and Co-operation Development's (OECD) Quantitative Structure Activity Relationship (QSAR) fifth commandment ensuring mechanistically describing the chemical-biological interaction by prime structural causes?in short, explaining biological activity by chemical reactivity.

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