


Valence Bond Methods

Theory and applications

Gordon A. Gallup



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Daniela Niemeyer

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Valence Bond Methods Gordon A. Gallup, 2002-07-11 Publisher Description **A Chemist's Guide to Valence Bond Theory** Sason S. Shaik, Philippe C. Hiberty, 2007-12-04 This reference on current VB theory and applications presents a practical system that can be applied to a variety of chemical problems in a uniform manner After explaining basic VB theory it discusses VB applications to bonding problems aromaticity and antiaromaticity the dioxygen molecule polyradicals excited states organic reactions inorganic organometallic reactions photochemical reactions and catalytic reactions With a guide for performing VB calculations exercises and answers and numerous solved problems this is the premier reference for practitioners and upper level students **Theory and Applications of the Empirical Valence Bond Approach** Fernanda Duarte, Shina Caroline Lynn Kamerlin, 2017-02-10 A comprehensive overview of current empirical valence bond EVB theory and applications one of the most powerful tools for studying chemical processes in the condensed phase and in enzymes Discusses the application of EVB models to a broad range of molecular systems of chemical and biological interest including reaction dynamics design of artificial catalysts and the study of complex biological problems Edited by a rising star in the field of computational enzymology Foreword by Nobel laureate Arieh Warshel who first developed the EVB approach

Structure, Bonding and Reactivity of Heterocyclic Compounds Frank De Proft, Paul Geerlings, 2014-11-03 The series Topics in Heterocyclic Chemistry presents critical reviews on present and future trends in the research of heterocyclic compounds Overall the scope is to cover topics dealing with all areas within heterocyclic chemistry both experimental and theoretical of interest to the general heterocyclic chemistry community The series consists of topic related volumes edited by renowned editors with contributions of experts in the field *Modern Electronic Structure Theory and Applications in Organic Chemistry* Ernest R. Davidson, 1997 This volume focuses on the use of quantum theory to understand and explain experiments in organic chemistry High level ab initio calculations when properly performed are useful in making quantitative distinctions between various possible interpretations of structures reactions and spectra Chemical reasoning based on simpler quantum models is however essential to enumerating the likely possibilities The simpler models also often suggest the type of wave function likely to be involved in ground and excited states at various points along reaction paths This preliminary understanding is needed in order to select the appropriate higher level approach since most higher level models are designed to describe improvements to some reasonable zeroth order wave function Consequently most of the chapters in this volume begin with experimental facts and model functions and then progress to higher level theory only when quantitative results are required In the first chapter Zimmerman discusses a wide variety of thermal and photochemical reactions of organic molecules Gronert discusses the use of ab initio calculations and experimental facts in deciphering the mechanism of elimination reactions in the gas phase Bettinger et al focus on carbene structures and reactions with comparison of the triplet and singlet states Next Hrovat and Borden discuss more general molecules with competitive triplet

and singlet contenders for the ground state structure Cave explains the difficulties and considerations involved with many of the methods and illustrates the difficulties by comparing with the UV spectra of short polyenes Jordan et al discuss long range electron transfer using model compounds and model Hamiltonians Finally Hiberty discusses the breathing orbital valence bond model as a different approach to introducing the crucial correlation that is known to be important in organic reactions

Computational Methods for the Analysis of Non-Covalent Interactions Carlos Martín-Fernández, Stuart A. Macgregor, 2025-10-27 This volume showcases state of the art computational methodologies for the description and analysis of non covalent interactions Each chapter focusses on a specific approach outlining a theoretical framework for the method in hand that is then illustrated by cutting edge applications A range of energy decomposition analyses and real space topological and geometrical schemes are covered providing a menu of approaches from which to draw insight into non covalent interactions The book serves as a comprehensive resource for computational chemists as well as experimental chemists seeking to understand how computational techniques can be applied in their research

Exploring Chemical Concepts Through Theory and Computation Shubin Liu, 2024-12-23 Deep theoretical resource on the essence of chemistry explaining a variety of important concepts including redox states and bond types Exploring Chemical Concepts Through Theory and Computation provides a comprehensive account of how the three widely used theoretical frameworks of valence bond theory molecular orbital theory and density functional theory along with a variety of important chemical concepts can between them describe and efficiently and reliably predict key chemical parameters and phenomena By comparing the three main theoretical frameworks readers will become competent in choosing the right modeling approach for their task The authors go beyond a simple comparison of existing algorithms to show how data driven theories can explain why chemical compounds behave the way they do thus promoting a deeper understanding of the essence of chemistry The text is contributed to by top theoretical and computational chemists who have turned computational chemistry into today's data driven and application oriented science Exploring Chemical Concepts Through Theory and Computation discusses topics including Orbital based approaches density based approaches chemical bonding partial charges atoms in molecules oxidation states aromaticity and antiaromaticity and acidity and basicity Electronegativity hardness softness HSAB sigma hole interactions charge transport and energy transfer and homogeneous and heterogeneous catalysis Electrophilicity nucleophilicity cooperativity frustration homochirality and energy decomposition Chemical concepts in solids excited states spectroscopy and machine learning and catalysis and machine learning as well as key connections between related concepts Aimed at both novice and experienced computational theoretical and physical chemists Exploring Chemical Concepts Through Theory and Computation is an essential reference to gain a deeper more advanced holistic understanding of the field of chemistry as a whole

The Electronic Structure of Molecules: Theory and Application to Inorganic Molecules Graham Doggett, 1972

Chemical Modelling Alan Hinchliffe, 2008 Chemical Modelling Applications and Theory

comprises critical literature reviews of molecular modelling both theoretical and applied Molecular modelling in this context refers to modelling the structure properties and reactions of atoms molecules materials Each chapter is compiled by experts in their fields and provides a selective review of recent literature With chemical modelling covering such a wide range of subjects this Specialist Periodical Report serves as the first port of call to any chemist biochemist materials scientist or molecular physicist needing to acquaint themselves of major developments in the area Volume 5 covers literature published from June 2005 to May 2007 **Reviews in Computational Chemistry** Kenny B. Lipkowitz, Donald B. Boyd, 1990

Molecular Electronic Structure Calculations--methods and Applications ,1984 *Proceedings of the Royal Society. Section A, Mathematical and Physical Science* Royal Society (Great Britain),1960 **Graduate School Catalog for ...** University of Arkansas, Fayetteville. Graduate School,1975 Proceedings of the International Symposium on Atomic, Molecular, and Solid-State Theory Per-Olov Löwdin,1967 **Chymia** ,1965 *The Journal of Chemical Physics* ,1999

Molecular Approaches to Materials Chemistry Thom H. Dunning,1994 The volumes in this series provide a collection of articles written by some of the top theorists in the field and should be of interest to chemists interested in fundamental molecular processes **China Report** ,1985 **Proceedings of the National Academy of Sciences of the United States of America** National Academy of Sciences (U.S.),1915 The Proceedings of the National Academy of Sciences PNAS publishes research reports commentaries reviews colloquium papers and actions of the Academy PNAS is a multidisciplinary journal that covers the biological physical and social sciences THEORY CHEM REACT DYN Michael Baer,1985-11-19

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