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a more holistic approach Effective and efficient research projects now incorporate whatever aspects of the chemistry subdisciplines that are needed to complete the intended work The main group elements have always been used in this manner Depending on the use of the elements the resulting work can be described under any heading of chemistry The group 13 elements have been special in this regard due to the very unique characters of the constituent elements Thus there is a dramatic change in the properties of the elements when proceeding through the series B Al Ga In Tl This difference is one of the main reasons why these elements have seen and continue to see such widespread usage in such disparate applications as organic synthesis electronic and structural materials and catalysis to name but a few

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Principles and Applications of Density Functional Theory in Inorganic Chemistry I Nikolas Kaltsoyannis, John E.

McGrady, 2004-09-14 It is difficult to overestimate the impact that density functional theory has had on computational quantum chemistry over the last two decades. Indeed, this period has seen it grow from little more than a theoretical curiosity to become a central tool in the computational chemist's armoury. Arguably, no area of chemistry has benefited more from the meteoric rise in density functional theory than inorganic chemistry: the ability to obtain reliable results in feasible timescales on systems containing heavy elements such as the d and f transition metals has led to an enormous growth in computational inorganic chemistry. The inorganic chemical literature reflects this growth; it is almost impossible to open a modern inorganic chemistry journal without finding several papers devoted exclusively or in part to density functional theory calculations. The real importance of the rise in density functional theory in inorganic chemistry is undoubtedly the much closer synergy between theory and experiment than was previously possible. In these volumes, world-leading researchers describe recent developments in the density functional theory and its applications in modern inorganic and bioinorganic chemistry. These articles address key issues in both solid state and molecular inorganic chemistry, such as spectroscopy, mechanisms, catalysis, bonding and magnetism. The articles in volume I are more focussed on advances in density functional methodology, while those in Volume II deal more with applications, although this is by no means a rigid distinction. *Comprehensive Inorganic Chemistry II*, 2013-07-23 *Comprehensive Inorganic Chemistry II* (Nine Volume Set) reviews and examines topics of relevance to today's inorganic chemists. Covering more interdisciplinary and high impact areas, *Comprehensive Inorganic Chemistry II* includes biological inorganic chemistry, solid state chemistry, materials chemistry and nanoscience. The work is designed to follow on with a different viewpoint and format from our 1973 work *Comprehensive Inorganic Chemistry* edited by Bailar, Emelius, Nyholm and Trotman-Dickenson, which has received over 2 000 citations. The new work will also complement other recent Elsevier works in this area, *Comprehensive Coordination Chemistry* and *Comprehensive Organometallic Chemistry*, to form a trio of works covering the whole of modern inorganic chemistry. Chapters are designed to provide a valuable long-standing scientific resource for both advanced students new to an area and researchers who need further background or answers to a particular problem on the elements, their compounds or applications. Chapters are written by teams of leading experts under the guidance of the Volume Editors and the Editors in Chief. The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource for information in the field. The chapters will not provide basic data on the elements, which is available from many sources and the original work, but instead concentrate on applications of the elements and their compounds. Provides a comprehensive review which serves to put many advances in perspective and allows the reader to make connections to related fields such as biological inorganic chemistry, materials chemistry, solid state chemistry and nanoscience. Inorganic chemistry is rapidly

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