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organophosphorus chemistry a practical approach in chemistry provides a practical introduction to the field by mixing a brief review of the subject area with key experimental details and sample procedures phosphorus is an element that has been central to the development of our modern way of life its chemistry plays a key role in the development of such important areas as pharmaceuticals agrochemicals modern materials and molecular biology much of this work requires a sound understanding of the organic chemistry of phosphorus and this volume is designed to instruct the reader in the essential methodology used topics covered include phosphines applications of phosphorus iii and v compounds as reagents in synthesis the chemistry of phosphorus ylides applications of the wittig reaction in the synthesis of heterocyclic and carbocyclic compounds preparation of iminophosphoranes and their synthetic applications in the aza wittig reaction phospho transfer processes leading to p c bond formation low valent phosphorus compounds and phosphorus methods in oligonucleotide chemistry it is intended not only for the specialist in organophosphorus chemistry but also for the organic chemist with little experience in the field who wishes to add phosphorus based techniques to his or her ensemble of synthetic methods

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experience combined includes updated content on urban geochemical mapping chemical speciation characterizing a brownfield site and the relationship between heavy metal distributions and cancer mortality

if one reflects upon the range of chemical problems accessible to the current quantum theoretical methods for calculations on the electronic structure of molecules one is immediately struck by the rather narrow limits imposed by economic and numerical feasibility most of the systems with which experimental photochemists actually work are beyond the grasp of ab initio methods due to the presence of a few reasonably large aromatic ring systems potential energy surfaces for all but the smallest molecules are extremely expensive to produce even over a restricted group of the possible degrees of freedom and molecules containing the higher elements of the periodic table remain virtually untouched due to the large numbers of electrons involved almost the entire class of molecules of real biological interest is simply out of the question in general the theoretician is reduced to model systems of variable appositeness in most of these fields the fundamental problem from a basic computational point of view is that large molecules require large numbers of basis functions whether slater type orbitals or gaussian functions suitably contracted to provide even a modestly accurate description of the molecular electronic environment this leads to the necessity of dealing with very large matrices and numbers of integrals within the hartree fock approximation and quickly becomes both numerically difficult and uneconomic

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