R Sarkar Inorganic Chemistry

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the thoroughly revised and rewritten third edition of general and inorganic chemistry part i is a consequence of repeated demand from students and teachers at different levels

this part of the book deals mainly with chemistry of the elements meant for 3rd year degree students

working from basic chemical principles metals in medicine presents a complete and methodical approach to the topic introductory chapters discuss important bonding concepts applicable to metallo drugs and their biological targets interactions that exist between the agents and substances in the biological milieu basic pharmacokinetic and pharmacodynamic properties including transport and uptake of drugs by the cells and methods for measuring efficacy and toxicity of agents the steps from drug discovery to market place are also briefly outlined and discussed these chapters lay the groundwork in order that students can clearly understand how agents work whatever their subject background following this introduction chapters focus on individual metallo drugs and agents for treating and detecting disease their synthesis structure and general properties known mechanism of action and important physical and chemical principles that apply topics covered include cisplatin platinum anticancer drugs ruthenium titanium and gallium for treating cancer gold compounds for treating arthritis cancer and other diseases vanadium copper and zinc in medicine metal complexes for diagnosing disease and metals in nanomedicine throughout the book feature boxes expand on features of drugs that are not directly related to studying metals in medicine for example discovery medical use specialist assays and metals in biology at the end of the chapters there are specifically designed problems exercises that apply basic kinetic thermodynamic and chemical principles to practical problem solving in metals in medicine metals in medicine distils the essence of this important topic for undergraduate and graduate students in chemistry biochemistry biology and the related areas of biophysics pharmacology and bioengineering and for researchers in other fields interested in getting a general insight into metals in medicine

heterostructured nanoparticles have the capability for a broad range of novel and enhanced properties which leads to appealing biomedical and environmental applications this timely new book addresses the design and preparation of multiphase nanomaterials with desired size shape phase composition and crystallinity as well as their current applications it emphasizes key examples to motivate deeper studies including nanomaterial based hyperthermia treatment of cancer nanohybrids for water purification nanostructures used in the removal or detection of bioagents from waste water and so on features presents state of the art research on heterostructured nanomaterials from their synthesis and physiochemical properties to current environmental and biological applications includes details on toxicity and risk assessment of multifunctional nanomaterials discusses recent developments and utilization in healthcare by leading experts introduces the main features of functionalization of nanomaterials in terms of desired size shape phase composition surface functionalization coating toxicity and geometry emphasizes practical applications in the environmental and biomedical sectors

coordination chemistry 21 covers the proceedings of the 21st international conference on coordination chemistry the book discusses several studies that tackle topics that concern the field of chemistry the text is organized into two parts plenary lectures and section lectures the first

four chapters are parts of the plenary lectures and include the following topics valence electron distributions in transition metal complexes coordination compounds with metal to metal bonds solar energy storage reactions involving metal complexes and electron transfer in blue copper proteins the remaining 11 chapters are organized into five sections according to the theme of the study the first section deals with electronic structure of coordination compounds while the second section covers unusual properties of coordination compounds in the solid state section 3 devotes itself to the coordination chemistry in solution section 4 tackles ligand activity in transition metal complexes the last section discusses the application of coordination chemistry to biology the book will be of great interest to researchers in the field of chemistry since it presents several studies relevant to the advancement of the field

density functional theory fundamental theory key methods and applications provides a thorough and detailed explanation and overview of this important computational quantum mechanical modeling method and its applications the book s chapters are structured to be easier to understand and more accessible to the target audience split into three distinct sections it examines foundational knowledge surrounding dft covering key concepts such as the thomas fermi model and hohenberg kohn sham theory exchange correlation functionals the advantages and disadvantages of dft compared to mo theory and other methods before exploring areas of future dft development the second section then examines practical methods and approaches for dft looking at the types of density functionals such as lsda gga and meta gga functionals hybrid functionals dftb methods dispersion corrected functionals time dependent dft and the plane wave approach it also looks at relations between dft and ab initio molecular dynamics and the qm mm approach the final section then focuses on applications and some useful case studies of use of dft in different areas whilst weighing up strengths and weaknesses in such applications provides a comprehensive and broad yet detailed overview of theory methods and practical applications of density functional theory dft geared chiefly towards theoretical computational and physical chemistry meets the need for an up to date work focused more heavily on chemistry applications of dft than most existing literature designed to be more accessible to late undergraduate graduate and postdoc researchers getting to grips with dft where existing literature has mostly been quite impenetrable and very specific incorporates case studies of practical applications of dft and objectively weighs up the advantages and disadvantages and recent and future potential advances

with special reference to the study of chemistry covers the period 1765 1947

the understanding in science implies insights from several different points of view alternative modern outlooks on electronic structure of atoms and molecules all rooted in quantum mechanics are presented in a single text together these complementary perspectives provide a deeper understanding of the localization of electrons and bonds the origins of chemical interaction and reactivity behavior the interaction between the

geometric and electronic structure of molecules etc in the opening two parts the basic principles and techniques of the contemporary computational and conceptual quantum chemistry are presented within both the wave function and electron density theories this background material is followed by a discussion of chemical concepts including stages of the bond formation processes chemical valence and bond multiplicity indices the hardness softness descriptors of molecules and reactants and general chemical reactivity stability principles the insights from information theory the basic elements of which are briefly introduced including the entropic origins and orbital communication theory of the chemical bond are the subject of part iv the importance of the non additive interference information tools in exploring patterns of chemical bonds and their covalent and ionic components will be emphasized

michael t pope and achim muller department of chemistry georgetown university washington dc 20057 2222 u s a department of chemistry university of bielefeld d 4boo bielefeld 1 f r g polyoxometalates from their discovery and early development in the final decades of the 19th century to their current significance in disciplines as diverse as chemistry mathematics and medicine continue to display surprisingly novel structures unexpected reactivities and applications and to attract increasing attention worldwide most of the contributors to the present volume participated in the workshop held at the center for interdisciplinary research at the university of bielefeld july 15 17 1992 the choice of topics illustrates some of the variety of directions and fields in which polyoxometalates can play an important role although many of the leading polyoxometalate research groups are represented here we regret that time constraints financial limitations and in some cases difficulties of communication did not allow us to include significant and imp tant work from other groups outside europe and north america in the following we briefly review the current status of the field of po oxometalates

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