

Organic Chemistry 2nd David Klein

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scientists categorize the chemical elements as metals nonmetals and metalloids largely based on the elements abilities to conduct electricity at normal temperatures and pressures but there are other distinctions taken into account when classifying the elements in the periodic table the alkali metals for example are metals but have such special properties that they are given their own classification the same is true for the alkaline earths alkali and alkaline earth metals second edition presents the current scientific understanding of the physics chemistry geology

and biology of these two families of elements including how they are synthesized in the universe when and how they were discovered and where they are found on earth with information pertaining to the discovery and naming of these elements as well as new developments and dilemmas this newly updated ebook examines how humans use alkalis and alkaline earths and their benefits and challenges to society health and the environment lithium sodium potassium magnesium and calcium are only a few of the topics covered in this full color resource alkali and alkaline earth metals second edition provides students and scientists with an up to date understanding of each of the nonmetals where they came from how they fit into our current technological society and where they may lead us

the two volume encyclopedia of supramolecular chemistry offers authoritative centralized information on a rapidly expanding interdisciplinary field user friendly and high quality articles parse the latest supramolecular advancements and methods in the areas of chemistry biochemistry biology environmental and materials science and engineering physics computer science and applied mathematics designed for specialists and students alike the set covers the fundamentals of supramolecular chemistry and sets the standard for relevant future research

lanthanide and actinide chemistry lanthanides and actinides also known as f elements are a group of metals which share certain important properties and aspects of electronic structure they have a huge range of applications in the production of electronic devices magnets superconductors fuel cells sensors and more the cursory treatment of these important metals in most inorganic chemistry textbooks makes a book length treatment essential since 2006 lanthanide and actinide chemistry has met this need with a thorough accessible overview with in depth accounts of the lanthanides actinides and transactinides this book is ideal for both undergraduate and postgraduate students in inorganic chemistry or chemical engineering courses now updated to reflect groundbreaking recent research this promises to continue as the essential introductory volume on the subject readers of the second edition of lanthanide and actinide chemistry will also find new and expanded subject areas including lanthanide enzymes single molecule magnets luminescence and upconversion organometallic and coordination chemistry and many more up to date information on the myriad modern applications of f elements lists of objectives and learning goals at the start of each chapter lanthanide and actinide chemistry is ideal for advanced undergraduates and graduate students in f element chemistry inorganic chemistry or any related field inorganic chemistry advanced textbook this series reflects the pivotal role of modern inorganic and physical chemistry in a whole range of emerging areas such as materials chemistry green chemistry and bioinorganic chemistry as well as providing a solid grounding in established areas such as solid state chemistry coordination chemistry main group chemistry and physical inorganic chemistry

the organometallic chemistry of n heterocyclic carbenes describes various aspects of n heterocyclic carbenes nhcs and their transition metal complexes at an entry level suitable for advanced undergraduate students and above the book starts with a historical overview on the quest for

carbenes and their complexes subsequently unique properties reactivities and nomenclature of the four classical nhcs derived from imidazoline imidazole benzimidazole and 1 2 4 triazole are elaborated general and historically relevant synthetic aspects for nhcs their precursors and complexes are then explained the book continues with coverage on the preparation and characteristics of selected nhc complexes containing the most common metals in this area i e ni pd pt ag cu au ru rh and ir the book concludes with an overview and outlook on the development of various non classical nhcs beyond the four classical types topics covered include stabilization dimerization and decomposition of nhcs stereoelectronic properties of nhcs and their evaluation diversity of nhcs isomers of nhc complexes and their identification nmr spectroscopic signatures of nhc complexes normal abnormal and mesoionic nhcs the organometallic chemistry of n heterocyclic carbenes is an essential resource for all students and researchers interested in this increasingly important and popular field of research

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the first comprehensive textbook on the timely and rapidly developing topic of inorganic porous materials this is the first textbook to completely cover a broad range of inorganic porous materials it introduces the reader to the development of functional porous inorganic materials from the synthetic zeolites in the 50 s to today s hybrid materials such as metal organic frameworks mofs covalent organic frameworks cofs and related networks it also provides the necessary background to understand how porous materials are organized characterized and applied in adsorption catalysis and many other domains additionally the book explains characterization and application from the materials scientist viewpoint giving the reader a practical approach on the characterization and application of the respective materials introduction to inorganic porous materials begins by describing the basic concepts of porosity and the different types of pores surfaces and amorphous versus crystalline materials before introducing readers to nature s porous materials it then goes on to cover everything from adsorption and catalysis to amorphous materials such as silica to inorganic carbons and periodic mesoporous organosilicas pmos it discusses the synthesis and applications of mofs and the broad family of cofs it concludes with a look at future prospects and emerging trends in the field the only complete book of its kind to cover the wide variety of inorganic and hybrid porous materials a comprehensive reference and outstanding tool for any course on inorganic porous materials heterogeneous catalysis and adsorption gives students and investigators the opportunity to learn about porous materials how to characterize them and understand how they can be applied in different fields introduction

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