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inorganic chemistry catherine e housecroft and alan g sharpe this book has established itself as a leading textbook in the subject by offering a fresh and exciting approach to the teaching of modern inorganic chemistry it gives a clear introduction to key principles with strong coverage of descriptive chemistry of the elements special selected topics chapters are included covering inorganic kinetics and mechanism catalysis solid state chemistry and bioinorganic chemistry a new full colour text design and three dimensional illustrations bring inorganic chemistry to life topic boxes have been used extensively throughout the book to relate the chemistry described in the text to everyday life the chemical industry environmental issues and legislation and natural resources teaching aids throughout the text have been carefully designed to help students learn effectively the many worked examples take students through each calculation or exercise step by step and are followed by related self study exercises tackling similar problems with answers to help develop their confidence in addition end of chapter problems reinforce learning and develop subject knowledge and skills definitions boxes and end of chapter checklists provide excellent revision aids while further reading suggestions from topical articles to recent literature papers will encourage students to explore topics in more depth new to this edition many more self study exercises have been introduced throughout the book with the aim of making stronger connections between descriptive chemistry and underlying principles additional overview problems have been added to the end of chapter problem sets the descriptive chemistry has been updated with many new results from the literature being included chapter 4 bonding in polyatomic molecules has been rewritten with greater emphasis on the use of group theory for the derivation of ligand group orbitals and orbital symmetry labels there is more coverage of supercritical fluids and green chemistry the new full colour text design enhances the presentation of the many molecular structures and 3 d images supporting this edition companion website featuring multiple choice questions and rotatable 3 d molecular structures available at www.housecroft.co.uk for full information including details of lecturer material see the contents list inside the book asolutions manual written by catherine e housecroft with detailed solutions to all end of chapter problems within the text is available for purchase separately isbn 0131 39926 8 catherine e housecroft is professor of chemistry at the university of basel switzerland she is the author of a number of textbooks and has extensive teaching experience in the uk switzerland south africa and the usa alan g sharpe is a fellow of jesus college university of cambridge uk and has had many years of experience teaching inorganic chemistry to undergraduates

this text integrates the three major branches of chemistry with the aim of enabling students to tackle more easily the problems within the

subject and to apply chemistry to real life situations

chemistry provides a robust coverage of the different branches of chemistry with unique depth in organic chemistry in an introductory text helping students to develop a solid understanding of chemical principles how they interconnect and how they can be applied to our lives

now in its fifth edition housecroft sharpe's inorganic chemistry is a well respected and leading international textbook this solutions manual accompanies the main text and provides model answers to the end of chapter problems linking to relevant sections and figures in the main text as appropriate solutions in this manual are fully worked making them of maximum benefit to students during in course assessment and end of course examination problems using the solutions manual will reinforce learning and develop subject knowledge and skills the solutions are referenced into the literature and diagrams are simplified to coach students in how to achieve a similar style in their own work catherine e housecroft is professor of chemistry at the university of basel switzerland she is the author of a number of textbooks and has had teaching experience in the uk switzerland south africa and the usa she has published around 500 research papers and reviews and her current research interests include aspects of coordination chemistry associated with solar energy conversion solid state lighting water oxidation porous coordination polymers and networks and hierarchical assemblies

now in its fourth edition housecroft sharpe's inorganic chemistry is a well respected and leading international textbook inorganic chemistry is primarily designed to be a student text but is well received as a reference book for those working in the field of inorganic chemistry inorganic chemistry provides both teachers and students with a clearly written and beautifully illustrated introduction to core physical inorganic principles it introduces the descriptive chemistry of the elements and the role played by inorganic chemistry in our everyday lives chapters on catalysis and industrial processes bioinorganic chemistry and inorganic materials and nanotechnology include many of the latest advances in these fields there is a new chapter on experimental techniques and the large number of worked examples exercises and end of chapter problems illustrate a broad range of their applications in inorganic chemistry the striking full colour design includes a wealth of three dimensional molecular and protein structures and photographs enticing students to delve into the world of inorganic chemistry throughout its four editions inorganic chemistry has successfully given both teachers and students the tools with which to approach the subject confidently and with enjoyment environmental issues linked to inorganic chemistry topics relating inorganic chemistry to biology and medicine and the applications of inorganic chemicals in the laboratory industry and daily life form the basis of a wide range of topic boxes in the book helping students to appreciate the importance and relevance of the subject a strong pedagogic approach is at the heart of inorganic chemistry while worked examples take students through calculations and exercises step by step the sets of self study exercises and end of chapter problems reinforce learning and develop subject knowledge and skills the end of chapter problems include sets of overview problems and problems entitled inorganic chemistry matters which use everyday material to illustrate the relevance of the material in each chapter definitions panels and end of chapter checklists offer students excellent revision aids further reading suggestions from topical articles to recent literature papers encourage students to explore topics in more depth

filling a gap in our systematic knowledge of gold this monograph covers the fundamental aspects while also considering new applications of gold compounds in catalysis as nanoparticles and their potential application as luminescent compounds written by an eminent team of authors from academia the book analyzes the current status of gold chemistry its special characteristics oxidation states and main type of complexes before going on to look at the synthesis of supramolecular aggregates due to the formation of gold gold metal interactions or other secondary bonds final sections deal with led solvoluminescent and electroluminescent materials liquid crystals and catalysis while of interest to advanced chemistry students this book is also useful for researchers interested in the chemistry of gold and its applications as well as those involved in metal metal interactions heteronuclear chemistry or in the optical properties of coordination compounds

the continued and evolving significance of boron chemistry to the wider chemical community is demonstrated by the international and interdisciplinary nature of the research reported in this book contemporary boron chemistry encompasses inorganic and organic compounds as well as polymers solid state materials medicinal aspects and theoretical studies covering many areas of chemistry with boron at its centre topics include applications to polyolefin catalysis medicine materials and polymers boron cluster chemistry including carboranes and metal containing clusters organic and inorganic chemistry of species containing only 1 or 2 boron atoms and theoretical studies of boron containing compounds new materials with novel optical and electronic properties are also discussed comprehensive and up to date graduates and researchers in a wide range of fields particularly those in organometallic and organic chemistry and materials science will welcome this book

advances in organometallic chemistry

supramolecular chemistry volume 71 the latest release in the advances in inorganic chemistry series presents timely and informative summaries on the current progress in a variety of subject areas within inorganic chemistry ranging from bio inorganic to solid state studies this acclaimed serial features reviews written by experts in the field serving as an indispensable reference to advanced researchers in this volume concise authoritative reviews provide an up to date resource material for new investigators and established research personnel included references enable readers to pursue detail and development in each field in addition research chemists in other fields can use this serial to acquaint themselves with the latest experimental methods techniques and computational applications within the field of inorganic reaction mechanisms features comprehensive reviews on the latest developments in supramolecular complex chemistry includes contributions from leading experts in the field of supermolecules and related materials serves as an indispensable reference to advanced researchers in supramolecular chemistry

biochemistry of scandium and yttrium gathers together existing knowledge about scandium and yttrium from a wide variety of disciplines part 1 will present a comparative study of the physical and chemical properties of scandium and yttrium looking at both their similarities and their differences part 2 will address the biochemical aspects of these two elements and the various medical and environmental applications while these elements are relatively rare in nature these books will show that they have unusual physical and chemical properties and a disproportionate number of important applications improved analytical techniques have revealed that scandium and yttrium are present throughout living matter even though only a relatively limited number of species have been analyzed so far this fact of course has far ranging implications for biological and environmental concerns part 1 also contains a discussion of the interactions of scandium and yttrium with molecules of biological interest such as organic acids carbohydrates proteins nucleotides and other biologically active molecules the major impacts of scandium and yttrium in science technology and medicine will be of interest to a wide variety of researchers including geochemists inorganic and organic chemists clinical biochemists and those specializing in environmental protection biochemistry of scandium and yttrium part 1 and part 2 will be especially welcome because the last book published on the biochemistry of scandium appeared over 20 years ago and the only book mentioning the biochemistry of yttrium came out in 1990

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