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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 rearned.co.uk/housecroft 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

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this presents the fundamental physics required for a full understanding of a diverse range of chemical phenomena and techniques such as diffraction reaction rates and nuclear magnetic resonance the text begins with a discussion of classical and wave mechanics which allows quantum mechanics to be introduced at an early stage the ideas presented in these early chapters are subsequently developed to deal with the traditional physics topics of kinetic theory electrostatics magnetism and optics however the text maintains a distinct chemical perspective by focusing on relevant chemical examples rather than the more hypothetical examples favored by the majority of introductory physics texts students will find the information presented directly applicable to the concepts and examples that they encounter throughout an undergraduate chemistry course

an introduction to undergraduate level physical chemistry that should bridge the increasing gap between school or college and university it aims to stimulate students to extend their knowledge from a as gnvq level to the ideas essential for university ent

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computers have become an integral part of chemistry virtually all modern scientific instrumentation contains some form of computer and indeed the operation of many instruments has become so complex that it is impossible without some degree of computer control it is vital for the modern student of chemistry to have at least a basic knowledge of computers and the deeper that knowledge is the better use will be made of the techniques available computers in chemistry provides an excellent overview of computers and their use in chemistry giving the student an insight into both the workings of a computer and the ways in which computer facilities can be effectively applied in the study of chemistry today topics covered include programming hardware laboratory software interfacing computers with experiments and presenting computed information

hardbound the chemistry of boron exhibits many unique features demonstrating exceptional ability in molecular ionic and solid state environments to form very stable compounds exhibiting structures based on icosahedral and other deltahedral units in addition boron forms a variety of very stable mononuclear tetrahedral as well as polynuclear cage anions including some of the most weakly coordinating anions currently known the hydride chemistry of boron is also unusually rich providing diverse examples of multicenter bonding which have stimulated numerous theoretical and computational studies these features of boron chemistry can be considered to be as distinctive as the unique features of the much

better known chemistry of carbon in organic compounds including the exceptional catenation ability of carbon as well as the wide range of compounds containing stable benzenoid and related structural units these and other special features of boron c

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