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Now in its fourth edition, the inorganic chemistry of Hauscroft and Sharp is a respected and leading international textbook. Inorganic chemistry is primarily intended for student text, but is well accepted as a reference book for those who work in the field of inorganic chemistry. Inorganic chemistry provides both teachers and students with a well-written and beautifully illustrated introduction to the basic physical and inorganic principles. It introduces the descriptive chemistry of the elements and the role that inorganic chemistry plays in our daily lives. Chapters on catalysis and industrial processes, bioinorganic chemistry, and inorganic materials and nanotechnology include many of the latest developments in these areas. There is a new chapter on experimental methods, and a large number of well-established examples, exercises and problems of the end chapter illustrate the wide range of their application in inorganic chemistry. The bright full-color design includes many three-dimensional molecular and protein structures and photographs, luring students to delve into the world of inorganic chemistry. Throughout the four editions, Inorganic Chemistry has successfully given both teachers and students the tools with which to approach the subject confidently and with pleasure. Environmental issues related to inorganic chemistry, topics related to inorganic chemistry in biology and medicine, and the use of inorganic chemicals in the laboratory, industry and everyday life form the basis of a wide range of thematic boxes in the book, helping students to appreciate the importance and relevance of the subject. A strong pedagogical approach is at the heart of inorganic chemistry. While worked examples take students through calculations and exercises step by step, sets of self-learning exercises and end chapter problems strengthen learning and develop subject knowledge and skills. Problems with the end of the chapter include a set of review problems and problems entitled inorganic chemistry that use everyday materials to illustrate the relevance of the material in each chapter. Definition panels and checklists at the end of the chapter offer students excellent tools for revision. Further reading of sentences, from current articles to recent literary articles, encourages students to study topics in more detail. Support for the fourth edition of companion website www.pearsoned.co.uk/housecroft involving multiple variants of the questions and rotated 3-D molecular structures. The Solution Guide, written by Catherine E. Hauscroft, with detailed solutions to all end chapter problems in the text is available for a separate purchase, ISBN 978-0-273-74276-0. New for this edition Latest achievements in basic inorganic chemistry. A new chapter detailing experimental methods. Discussion of nuclear properties in the relevant sections in the book, and in a special chapter. Reordering chapters on organometallic chemistry and catalization. Improved coverage of ion fluids, sustainable energy, solid-fuel devices, superconductors and graphene. Lots of new self-affirmation exercises and problems at the end of the chapter. Updated statistics. Carefully revised topics box environment, biology and medicine, applications and theories. Catherine E. Hauscroft is Professor of Chemistry at the University of Basel, Switzerland. She is the author of a number of textbooks and has teaching experience in the UK, Switzerland, Southern Africa and the US. It has published more than 400 scientific papers and reviews, and its current research interests include aspects of chemistry coordination related to the conversion of solar energy, solid state lighting, water oxidation and porous coordination of polymers and networks. Inorganic Chemistry Catherine E. Hauscroft and Alan G. Sharp This book has established itself as a leading textbook on the subject, offering a fresh and exciting approach to teaching modern inorganic chemistry. This gives a clear introduction to the key principles with strong coverage of the narrative chemistry of the elements. Special favorite chapter themes included covering inorganic kinetics and mechanism, catalysis, solid chemistry and bioinorganic chemistry. New full-color text design and 3D illustrations envelop in inorganic chemistry. Thematic boxes have been widely used throughout the book to link the chemistry described in the text with everyday life, the chemical industry, environmental issues and legislation, as well as natural resources. The tutorials throughout the text have been carefully designed to help students learn effectively. Many worked examples take students through each calculation or exercise step by step, and followed appropriate self-learning exercises to address similar problems with responses to help develop their confidence. In addition, the problems associated with the end of the chapter enhance learning and develop knowledge and skills in the subject. The definitions of the box and the end chapter checklists provide excellent revision manuals, while further reading suggestions, from topical articles to recent literary papers, will encourage students to study the more in more detail. New to this edition Many more self-learning exercises have been introduced throughout the book with the aim of making stronger connections between narrative chemistry and basic principles. Additional review issues were added to the set of problems at the end of the chapter. Descriptive chemistry has been updated and many new literature results have been included. Chapter 4 Communication in Polyatomic Molecules has been rewritten with a great emphasis on the use of group theory to produce a ligand group of orbits and orbital symmetry labels. There is more coverage liquids and Chemistry. The new full-color text design improves the representation of many molecular structures and 3-D images. Support this edition of the Companion website featuring several variations of the questions and the rotated 3-D molecular structures available on www.pearsoned.co.uk/housecroft, For full information, including details of teaching material, see a list of the contents inside the book. The ASolutions guide, written by Catherine E. Hauscroft, details all the problems of the end chapter in the text available for purchase separately ISBN 0131 39926 8. Catherine E. Hauscroft 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, Southern Africa and the US. Alan G. Sharp is a member of the College of Jesus, University of Cambridge, UK and has many years of experience teaching inorganic chemistry to students Now in his fifth edition, Housecroft and Sharpe in Inorganic Chemistry, continues to provide an engaging, clear and comprehensive introduction to basic physical and inorganic principles. This well-respected and world-renowned textbook introduces the descriptive chemistry of elements and the role played by inorganic chemistry in our daily lives. The stunning full-color design has been further enhanced for this edition with an abundance of three-dimensional molecular and protein structures and photographs, bringing to life a world of inorganic chemistry. In the latest research, this edition also includes coverage related to the extended periodic table and new approaches to the evaluation of lattice energies and to the bonding of classifications of organometallic compounds. A carefully crafted pedagogical approach guides the reader through this fascinating subject with features designed to encourage thought and help students strengthen their understanding and learn how to apply their understanding of key concepts in the real world. Features include: Thematic box sections with a focus on the fields of biology and medicine, the environment, applications and theories to engage students and ensure they gain a deep, practical and relevant understanding; a wide range of text self-in-law exercises including worked examples, reflexive questions and the end of the chapter on the problem of assisting an independent study; Definition panels and checklists at the end of the chapter provide students with excellent tools for revision; and striking visuals throughout the book have been carefully designed to illustrate molecular and protein structures and lure students further into the world of inorganic chemistry - Provided by the publisher. Now in its fourth edition, the inorganic chemistry of Hauscroft and Sharp is a respected and leading international textbook. Inorganic chemistry in the first designed for student text, but well-received as a books for those who work in the field of inorganic chemistry. Inorganic chemistry provides both teachers and students with a well-written and beautifully illustrated introduction to the basic physical and inorganic principles. It introduces the descriptive chemistry of the elements and the role that inorganic chemistry plays in our daily lives. Chapters on catalysis and industrial processes, bioinorganic chemistry, and inorganic materials and nanotechnology include many of the latest developments in these areas. There is a new chapter on experimental methods, and a large number of well-established examples, exercises and problems of the end chapter illustrate the wide range of their application in inorganic chemistry. The bright full-color design includes many three-dimensional molecular and protein structures and photographs, luring students to delve into the world of inorganic chemistry. 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Improved coverage of ion fluids, sustainable energy, solid-fuel devices, superconductors and Lots of new self-affirmation exercises and problems at the end of the chapter. Updated statistics. Carefully revised thematic boxes: environment, biology and medicine, applications and theory. Catherine E. Hauscroft is Professor of Chemistry at the University of Basel, Switzerland. She is the author of a number of textbooks and has teaching experience in the UK, Switzerland, Southern Africa and the US. It has published more than 400 scientific papers and reviews, and its current research interests include aspects of coordination housecroft inorganic chemistry 5th edition. housecroft inorganic chemistry solutions manual pdf. housecroft inorganic chemistry solutions manual. housecroft inorganic chemistry pdf download. housecroft inorganic chemistry 4th edition pdf. housecroft inorganic chemistry 5th edition pdf. housecroft inorganic chemistry download. housecroft inorganic chemistry solutions

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