

Descriptive Inorganic Chemistry 6th Edition

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Descriptive Inorganic Chemistry Pearson Higher Ed

The authors, who have more than two decades of combined experience teaching an atoms-first course, have gone beyond reorganizing the topics. They emphasize the particulate nature of matter throughout the book in the text, art, and problems, while placing the chemistry in a biological, environmental, or geological context. The authors use a consistent problem-solving model and provide students with ample opportunities to practice.

A Comprehensive Laboratory Experience Pearson Education India

Metal ions play an important role in analytical chemistry, organometallic chemistry, bioinorganic chemistry, and materials chemistry. This book, Descriptive Inorganic Chemistry Researches of Metal Compounds, collects research articles, review articles, and tutorial description about metal compounds. To perspective contemporary researches of inorganic chemistry widely, the kinds of metal elements (typical and transition metals including rare earth; p, d, f-blocks) and compounds (molecular coordination compounds, ionic solid materials, or natural metalloenzyme) or simple substance (bulk, clusters, or alloys) to be focused are not limited. In this way, review chapters of current researches are collected in this book.

Descriptive Inorganic Chemistry BoD – Books on Demand

From the fundamental principles of inorganic chemistry to cutting-edge research at the forefront of the subject, this text provides a comprehensive introduction to the field.

Principles Of Descriptive Inorganic Chemistry Academic Press

This text contains detailed worked solutions to all the end-of-chapter exercises in the textbook Organic Chemistry. Notes in tinted boxes in the page margins highlight important principles and comments.

Inorganic Chemistry John Wiley & Sons

This textbook aims to convey the important principles and facts of inorganic chemistry in a way that is both understandable and enjoyable to undergraduates. Examples help to illustrate the material, and key points are summarized at the conclusion of each chapter.

Lange's Handbook of Chemistry, 70th Anniversary Edition John Wiley & Sons

Characterisation Methods in Inorganic Chemistry provides a fresh alternative to the existing theoretical and descriptive inorganic chemistry texts by adopting a techniques-based approach and providing problem-solving opportunities to show how analytical methods are used to help us characterise inorganic compounds. The text covers the full range of analytical techniques employed by inorganic chemists, emphasizing those in most frequent use: NMR, diffraction, UV-Vis spectroscopy, and IR. The additional coverage on other techniques allows readers to study these less widely used methods when relevant to their specific course material. Each chapter follows a clear, structured format, which begins with a brief introduction to the technique and basic theory behind it before moving on to data collection and analysis, typical data and interpretation, with numerous worked examples, self-tests and problems. Online Resource Centre: For registered adopters of the book: * Figures and tables of data from the book, ready to download * Additional problems and exercises For students: * Answers to self-test questions * Additional problems and data sets

Descriptive Inorganic Chemistry John Wiley & Sons

This updated edition of the Handbook of Inorganic Compounds is the perfect reference for anyone that needs property data for compounds, CASRN numbers for computer or other searches, a consistent tabulation of molecular weights to synthesize inorganic materials on a laboratory scale, or data related to physical and chemical properties. Fully revised

Handbook of Preparative Inorganic Chemistry John Wiley & Sons

The easy way to get a grip on inorganic chemistry Inorganic chemistry can be an intimidating subject, but it doesn't have to be! Whether you're currently enrolled in an inorganic chemistry class or you have a background in chemistry and want to expand your knowledge, Inorganic Chemistry For Dummies is the approachable, hands-on guide you can trust for fast, easy learning. Inorganic Chemistry For Dummies features a thorough introduction to the study of the synthesis and behavior of inorganic and organometallic compounds. In plain English, it explains the principles of inorganic chemistry and includes worked-out problems to enhance your understanding of the key theories and concepts of the field. Presents information in an effective and straightforward manner Covers topics you'll encounter in a typical inorganic chemistry course Provides plain-English explanations of complicated concepts If you're pursuing a career as a nurse, doctor, or engineer or a lifelong learner looking to make sense of this fascinating subject, Inorganic Chemistry For Dummies is the quick and painless way to master inorganic chemistry.

Advanced Inorganic Chemistry BoD – Books on Demand

Descriptive Inorganic Chemistry Macmillan Higher Education

Current Topics in Chirality Academic Press

Now in its fifth edition, Housecroft & Sharpe's Inorganic Chemistry, continues to provide an

engaging, clear and comprehensive introduction to core physical-inorganic principles. This widely respected and internationally renowned textbook introduces the descriptive chemistry of the elements and the role played by inorganic chemistry in our everyday lives. The stunning full-colour design has been further enhanced for this edition with an abundance of three-dimensional molecular and protein structures and photographs, bringing to life the world of inorganic chemistry. Updated with the latest research, this edition also includes coverage relating to the extended periodic table and new approaches to estimating lattice energies and to bonding classifications of organometallic compounds. A carefully developed pedagogical approach guides the reader through this fascinating subject with features designed to encourage thought and to help students consolidate their understanding and learn how to apply their understanding of key concepts within the real world. Features include:

- Thematic boxed sections with a focus on areas of Biology and Medicine, the Environment, Applications, and Theory engage students and ensure they gain a deep, practical and topical understanding
- A wide range of in-text self-study exercises including worked examples, reflective questions and end of chapter problems aid independent study
- Definition panels and end-of-chapter checklists provide students with excellent revision aids
- Striking visuals throughout the book have been carefully crafted to illustrate molecular and protein structures and to entice students further into the world of inorganic chemistry

Inorganic Chemistry 5th edition is also accompanied by an extensive companion website, available at www.pearsoned.co.uk/housecroft. This features multiple choice questions and rotatable 3D molecular structures.

Essentials of Inorganic Chemistry WH Freeman

Involved as it is with 95% of the periodic table, inorganic chemistry is one of the foundational subjects of scientific study. Inorganic catalysts are used in crucial industrial processes and the field, to a significant extent, also forms the basis of nanotechnology. Unfortunately, the subject is not a popular one for undergraduates. This book aims to take a step to change this state of affairs by presenting a mechanistic, logical introduction to the subject. Organic teaching places heavy emphasis on reaction mechanisms - "arrow-pushing" - and the authors of this book have found that a mechanistic approach works just as well for elementary inorganic chemistry. As opposed to listening to formal lectures or learning the material by heart, by teaching students to recognize common inorganic species as electrophiles and nucleophiles, coupled with organic-style arrow-pushing, this book serves as a gentle and stimulating introduction to inorganic chemistry, providing students with the knowledge and opportunity to solve inorganic reaction mechanisms.

- The first book to apply the arrow-pushing method to inorganic chemistry teaching
- With the reaction mechanisms approach ("arrow-pushing"), students will no longer have to rely on memorization as a device for learning this subject, but will instead have a logical foundation for this area of study
- Teaches students to recognize common inorganic species as electrophiles and nucleophiles, coupled with organic-style arrow-pushing
- Provides a degree of integration with what students learn in organic chemistry, facilitating learning of this subject
- Serves as an invaluable companion to any introductory inorganic chemistry textbook

Arrow Pushing in Inorganic Chemistry CRC Press

Special Features:

- Systematically covers the periodic table and encompasses the chemistry of all chemical elements and their compounds, including interpretative discussion in light of the advances in structural chemistry, general valence theory and ligand field theory
- Increases coverage of

descriptive chemistry

About The Book: For more than a quarter century, Cotton and Wilkinson's Advanced Inorganic Chemistry has been the source that students and professional chemists have turned to for the background needed to understand current research literature in inorganic chemistry and aspects of organometallic chemistry. Like its predecessors, this updated Sixth Edition is organized around the periodic table of elements and provides a systematic treatment of the chemistry of all chemical elements and their compounds. It incorporates important recent developments with an emphasis on advances in the interpretation of structure, bonding and reactivity.

Inorganic Chemistry Cengage Learning

This bestselling text gives students a less rigorous, less mathematical way of learning inorganic chemistry, using the periodic table as a context for exploring chemical properties and uncovering relationships between elements in different groups. The authors help students understand the relevance of the subject to their lives by covering both the historical development and fascinating contemporary applications of inorganic chemistry (especially in regard to industrial processes and environmental issues). The new edition offers new study tools, expanded coverage of biological applications, and new help with problem-solving.

Periodic Table, The: Past, Present, And Future W. W. Norton & Company

The Student Solution Manual includes the worked solutions to all of the odd-numbered problems found in Descriptive Inorganic Chemistry, sixth edition.

Inorganic Chemistry BoD — Books on Demand

Emphasises on contemporary applications and an intuitive problem-solving approach that helps students discover the exciting potential of chemical science. This book incorporates fresh applications from the three major areas of modern research: materials, environmental chemistry, and biological science.

Descriptive Inorganic Chemistry, Third Edition John Wiley & Sons

This book is both a review of current research and an undergraduate textbook for inorganic chemistry at university level. In university undergraduate lectures, basic concepts are mainly explained and added examples of frontier research are optional. However, in many cases, frontier research is more interesting for students than basic studies. This book is aimed at undergraduates in inorganic chemistry. Each author introduces or reviews "frontier research topics" of inorganic coordination chemistry. Additionally, "basic concepts," as found in textbooks on this subject, indicate application examples of "frontier research topics."

Reactions, Mechanisms, and Structure University Science Books

A comprehensive introduction to inorganic chemistry and, specifically, the science of metal-based drugs, Essentials of Inorganic Chemistry describes the basics of inorganic chemistry, including organometallic chemistry and radiochemistry, from a pharmaceutical perspective. Written for students of pharmacy and pharmacology, pharmaceutical sciences, medicinal chemistry and other health-care related subjects, this accessible text introduces chemical principles with relevant pharmaceutical examples rather than as stand-alone concepts, allowing students to see the relevance of this subject for their future professions. It includes exercises and case studies.

Advanced Inorganic Chemistry University Science Books

Both elementary inorganic reaction chemistry and more advanced inorganic theories are presented in this one textbook, while showing the relationships between the two.

Introduction to Modern Inorganic Chemistry, 6th edition Descriptive Inorganic Chemistry

This textbook provides essential information for students of inorganic chemistry or for chemists pursuing self-study. The presentation of topics is made with an effort to be clear and concise so that the book is portable and user friendly. Inorganic Chemistry 2E is divided into five major themes (structure, condensed phases, solution chemistry, main group and coordination compounds) with several chapters in each. There is a logical progression from atomic structure to molecular structure to properties of substances based on molecular structures, to behavior of solids, etc. The author emphasizes fundamental principles-including molecular structure, acid-base chemistry, coordination chemistry, ligand field theory, and solid state

chemistry -and presents topics in a clear, concise manner. There is a reinforcement of basic principles throughout the book. For example, the hard-soft interaction principle is used to explain hydrogen bond strengths, strengths of acids and bases, stability of coordination compounds, etc. The book contains a balance of topics in theoretical and descriptive chemistry. New to this Edition: New and improved illustrations including symmetry and 3D molecular orbital representations Expanded coverage of spectroscopy, instrumental techniques, organometallic and bio-inorganic chemistry More in-text worked-out examples to encourage active learning and to prepare students for their exams

- Concise coverage maximizes student understanding and minimizes the inclusion of details students are unlikely to use.
- Discussion of elements begins with survey chapters focused on the main groups, while later chapters cover the elements in greater detail.
- Each chapter opens with narrative introductions and includes figures, tables, and end-of-chapter problem sets.

From Chemistry to Biology Academic Press

This Highly Readable Text Provides The Essentials Of Inorganic Chemistry At A Level That Is Neither Too High (For Novice Students) Nor Too Low (For Advanced Students). It Has Been Praised For Its Coverage Of Theoretical Inorganic Chemistry. It Discusses Molecular Symmetry Earlier Than Other Texts And Builds On This Foundation In Later Chapters. Plenty Of Supporting Book References Encourage Instructors And Students To Further Explore Topics Of Interest.