Descriptive Inorganic Chemistry 6th Edition

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Principles, Patterns, and Applications Descriptive Inorganic Chemistry
A systematic survey of the chemistry of the elements introduces the undergraduate student to the preparation, structure, chemical reactions and physical properties of manufactured inorganic substances.
Descriptive Inorganic Chemistry, Third Edition W. W. Norton & Company
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 characteriseinorganic 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 theirspecific 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 exercisesFor students:* Answers to self-test questions* Additional problems and data sets
Industrial Inorganic Chemistry **Oxford University Press, USA**
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.
Handbook of Inorganic Compounds John Wiley & Sons
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.
An Atoms-Focused Approach CRC Press
For lower-division courses with an equal balance of description and theory.
A Comprehensive Laboratory Experience University Science Books
This book provides an up-to-date survey of modern industrial inorganic chemistry in a clear and concise manner. Production processes are described in close detail, aspects such as the disposition of raw materials and energy consumption, the economic significance of the product and technical applications, as well as ecological problems, being discussed. From reviews of the previous edition: '... Overall this is an extremely useful, authoritative reference book dealing with a topic in which it is often difficult to obtain up-to-date information. ...' Chemistry and Industry 'One of few texts available that concisely describes the current state of industrial inorganic chemistry. ...' The New York Public Library '... and as for modern uses of inorganic chemistry, I'd recommend this book as a welcome addition to any professional library...' Chemtech 'This book fills an important niche in its sector. Industrial scientists and engineers, academics, and students can be recommended to turn to it with reasonable confidence that the most important areas are described. ...' Endeavour '... it fills a currently existing gap in the market.' Journal of Chemical Technology and Biotechnology
Characterisation Methods in Inorganic Chemistry Macmillan Higher Education
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.
Inorganic Chemistry University Science Books
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.
Inorganic Chemistry WH Freeman
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.

BoD – Books on Demand

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

Principles Of Descriptive 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.

Descriptive Inorganic Chemistry Academic Press

Chirality is a concept related not only to organic chemistry but also to each field of natural science. Awareness of hierarchy is important for universal and comprehensive understanding. As such, this book examines myriad subjects related to chirality in chemistry and interdisciplinary applications. In contrast to the previous book, this new book about chirality includes contributions from authors in many fields of natural science, providing a wider overview. The book ' s focus is chirality and organic chemistry, including synthesis and reactions.

Reactions, Mechanisms, and Structure John Wiley & Sons

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.

Essentials of Inorganic Chemistry John Wiley & Sons

This unique text is ingeniously organized by class of compound and by property or reaction type, not group by group or element by element (which requires students to memorize isolated facts).

Chemistry BoD – Books on Demand

Translated from his Handbuch der praparativen anorganischen Chemie (Stittgart : Ferdinand Enke Verlag, 1960-1962, 2v.).

The Elements of Physical Chemistry CRC Press

This proven book introduces the basics of coordination, solid-state, and descriptive main-group chemistry in a uniquely accessible manner, featuring a less is more approach. Consistent with the less is more philosophy, the book does not review topics covered in general chemistry, but rather moves directly into topics central to inorganic chemistry. Written in a conversational prose style that is enjoyable and easy to understand, this book presents not only the basic theories and methods of inorganic chemistry (in three self-standing sections), but also a great deal of the history and applications of the discipline. This edition features new art, more diversified applications, and a new icon system. And to better help readers understand how the seemingly disparate topics of the periodical table connect, the book offers revised coverage of the author's Network of Interconnected Ideas on new full color endpapers, as well as on a convenient tear-out card. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Inorganic Chemistry Macmillan

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.

Chemistry Cambridge University Press

That fossilized chart on every classroom wall — isn't that The Periodic Table? Isn't that what Mendel é ev devised about a century ago? No and No. There are many ways of organizing the chemical elements, some of which are thought-provoking, and which reveal philosophical challenges. Where does hydrogen 'belong'? Can an element occupy more than one location on the chart? Which are the Group 3 elements? Is aluminum in the wrong place? Why is silver(I) like thallium(I)? Why is vanadium like molybdenum? Why does gold form an auride ion like a halide ion? Does an atom 'know' if it is a non-metal or metal? Which elements are the 'metalloids'? Which are the triels? So many questions! In this stimulating and innovative book, the Reader will be taken on a voyage from the past to the present to the future of the Periodic Table. This book is unique. This book is readable. This book is thought-provoking. It is a multi-dimensional examination of patterns and trends among the chemical elements. Every reader will discover something about the chemical elements which will provoke thought and a new appreciation as to how the elements relate together.

Advanced Inorganic Chemistry McGraw Hill Professional

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

Descriptive Inorganic Chemistry Pearson Higher Ed

A comprehensive treatment of the subject of

microscale inorganic chemistry is provided through 45 laboratory experiments. These include experiments in main group and transition metal chemistry, instrumental techniques, kinetics, synthesis and the manipulation of air-sensitive material.