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Encyclopedia of the Elements **From Transuranic to Superheavy Elements The Heaviest Metals** The Transuranium People Master Resource
Book in Chemistry for JEE Main 2022 **Inorganic and Bio-Inorganic Chemistry - Volume I Actinides and the Environment** *Sindh*
University Research Journal **Evaluation of the “Project for the restoration of livelihoods in Khyber Pakhtunkhwa Tribal Districts”**
Networks and Mobilization Processes: The Case of the Japanese Anti-Nuclear Movement after Fukushima Boilermaker 1 & C. Learning
MySQL Proceedings of the Robert A. Welch Foundation Conferences on Chemical Research **The Saturday Evening Post Exotic Nuclei -**
Proceedings Of The 4th Course Of The International School Of Heavy Ion Physics, The Science And Culture S Terminology
Nomenclature of Inorganic Chemistry II **Official Gazette John Allen Muhammad, Document Fraud, and the Western Hemisphere**
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the Actinide and Transactinide Elements (3rd ed., Volumes 1-5) The Chemistry of the Actinide and Transactinide Elements (Set Vol.1-6)
Principles of Islamic Ethics for Contemporary Workplaces College Algebra South African Journal of Chemistry **The Herald Register of**
Commissioned and Warrant Officers of the United States Navy and Reserve Officers on Active Duty

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Actinides and the Environment Apr 21 2022 The handling of actinides and actinide-based materials provides significant technological challenges due to the toxicity and radioactivity associated with these materials. These challenges are particularly apparent in the nuclear power

industry. Under normal operation, a reactor can produce a significant amount of spent fuel requiring subsequent containment for geologic times, and under accident conditions it can release lethal doses of radioactive material to the environment. Inevitably, radioactive material will enter the environment, necessitating as complete an understanding as possible of its behavior. An understanding of the interaction between actinides and the environment must be based on a knowledge of their basic physical and chemical properties. To date, although there is general agreement on the principles for waste disposal, no facility has been built for the long term disposal of high level radioactive waste from either normal reactor operations or from accidental catastrophes. This makes it most important for the scientific and technical community to develop the necessary cross-disciplinary understanding that will help us implement safe and secure waste management, accident remediation and accident prevention systems.

Exotic Nuclei - Proceedings Of The 4th Course Of The International School Of Heavy Ion Physics, The Science And Culture S Aug 13 2021 The last few years have seen great progress in the understanding of nuclei far from stability, i.e. nuclei with a composition that differs radically from that of the stable nuclei that we encounter in Nature. It has become clear that the study of exotic nuclear species reveals many new phenomena, which may make us go back, armed with new insight, to more familiar nuclear systems. The proceedings at the 4th course of the International School of Heavy Ion Physics — Exotic Nuclei, containing the lectures and seminars by world specialists in the field, cover some of the central themes of the physics of exotic nuclei which lie at the forefront of nuclear research.

Inorganic Chemical Nomenclature Dec 05 2020

Nomenclature of Inorganic Chemistry II Jun 11 2021 Chemical nomenclature has attracted attention since the beginning of chemistry, when the need to exchange knowledge was first recognised. The responsibility for providing nomenclature to the chemical community was assigned to the International Union of Pure and Applied Chemistry, whose Rules for Inorganic Nomenclature were published and revised in 1958 and 1970. Since then many new compounds have appeared, particularly with regard to coordination chemistry and boron chemistry, which were difficult to name using the 1970 Rules. Consequently, the IUPAC Commission on the Nomenclature of Inorganic Chemistry decided to thoroughly revise the last edition of the 'Red Book'. As many of the new fields of chemistry are very highly specialised and require complex nomenclature, the revised edition is in two parts. Whilst Part I is mainly concerned with general inorganic chemistry, this volume, Part II, addresses such diverse chemistry as polyanions, isotopic modification, tetrapyrroles, nitrogen hydrides, inorganic ring, chain, polymer, and graphite intercalation compounds. The recommendations bring order to the nomenclature of these specialised systems, based on the fundamental nomenclature described in Part I and the organic nomenclature publications. Each chapter has been subject to extensive review by members of IUPAC and practising chemists in various areas.

Design and Use of Relational Databases in Chemistry May 30 2020 Optimize Your Chemical Database Design and Use of Relational Databases in Chemistry helps programmers and users improve their ability to search and manipulate chemical structures and information, especially when using chemical database "cartridges". It illustrates how the organizational, data integrity, and extensibility properties of relational databases are best utilized when working with chemical information. The author facilitates an understanding of existing relational database schemas and shows how to design new schemas that contain tables of data and chemical structures. By using database extension cartridges, he provides methods to properly store and search chemical structures. He explains how to download and install a fully functioning

database using free, open-source chemical extension cartridges within PostgreSQL. The author also discusses how to access a database on a computer network using both new and existing applications. Through examples of good database design, this book shows you that relational databases are the best way to store, search, and operate on chemical information.

Terminology Jul 12 2021 In the era of information technology, the need to communicate data effectively and precisely has given a boost to research in terminology. This collection of 14 articles by experts from different backgrounds deals with linguistic problems and technical aspects of terminology; in addition, there are articles relating to terminology in specific subject fields – lexicography, physical sciences, chemistry, social sciences and medicine. By presenting various approaches and applications, the volume raises fundamental questions about the use of concepts and the ordering of knowledge. Moreover, important new insights into the principles and methods employed in terminology management are offered by the ways in which contributors have tackled problems of communication in their specific subject fields.

Asian Data Privacy Laws Oct 03 2020 The first work to examine data privacy laws across Asia, covering all 26 countries and separate jurisdictions, and with in-depth analysis of the 14 which have specialized data privacy laws. Professor Greenleaf demonstrates the increasing world-wide significance of data privacy and the international context of the development of national data privacy laws as well as assessing the laws, their powers and their enforcement against international standards.

Boilermaker 1 & C. Dec 17 2021

College Algebra Sep 21 2019 College Algebra provides a comprehensive exploration of algebraic principles and meets scope and sequence requirements for a typical introductory algebra course. The modular approach and richness of content ensure that the book meets the needs of a variety of courses. College Algebra offers a wealth of examples with detailed, conceptual explanations, building a strong foundation in the material before asking students to apply what they've learned. Coverage and Scope In determining the concepts, skills, and topics to cover, we engaged dozens of highly experienced instructors with a range of student audiences. The resulting scope and sequence proceeds logically while allowing for a significant amount of flexibility in instruction. Chapters 1 and 2 provide both a review and foundation for study of Functions that begins in Chapter 3. The authors recognize that while some institutions may find this material a prerequisite, other institutions have told us that they have a cohort that need the prerequisite skills built into the course. Chapter 1: Prerequisites Chapter 2: Equations and Inequalities Chapters 3-6: The Algebraic Functions Chapter 3: Functions Chapter 4: Linear Functions Chapter 5: Polynomial and Rational Functions Chapter 6: Exponential and Logarithm Functions Chapters 7-9: Further Study in College Algebra Chapter 7: Systems of Equations and Inequalities Chapter 8: Analytic Geometry Chapter 9: Sequences, Probability and Counting Theory

The Heaviest Metals Aug 25 2022 An authoritative survey of the science and advanced technological uses of the actinide and transactinide metals The Heaviest Metals offers an essential resource that covers the fundamentals of the chemical and physical properties of the heaviest metals as well as the most recent advances in their science and technology. The authors – noted experts in the field – offer an authoritative review of the actinide and transactinide elements, i.e., the elements from actinium to lawrencium as well as rutherfordium through oganesson, the current end of the periodic table, element 118. The text explores the history of the metals, their occurrence and issues of production, and covers a broad range of chemical subjects including environmental concerns and remediation approaches. The authors also offer information on the most recent and emerging applications of the metals, such as in superconducting materials, catalysis, and research into medical

diagnostics. This important resource: Provides an overview of the science and advanced technological uses of the actinide and transactinide metals Describes the basic chemical and physical properties of the heaviest metals, and discusses the challenges and opportunities for their technological applications Contains accessible information on the fundamental features of the heaviest metals, special requirements for their experimental study, and the critical role of computational characterization of their compounds Highlights the most current and emerging applications in areas such as superconducting materials, catalysis, nuclear forensics, and medicine Presents vital contemporary issues of the heaviest metals Written for graduate students and researchers working with the actinide and transactinide elements, industrial and academic inorganic and nuclear chemists, and engineers, *The Heaviest Metals* is a comprehensive volume that explores the fundamental chemistry and properties of the heaviest metals, and the challenges and opportunities associated with their present and emerging technological uses.

Encyclopedia of the Elements Oct 27 2022 Famous for its history of numerous element discoverers, Sweden is the origin of this comprehensive encyclopedia of the elements. It provides both an important database for professionals as well as detailed reading ranging from historical facts, discoverers' portraits, colour plates of mineral types, natural occurrences, and industrial figures to winning and refining processes, biological roles and applications in modern chemistry, engineering and industry. Elemental data is presented in fact tables which include numerous physical and thermodynamic properties, isotope lists, radiation absorption characteristics, NMR parameters, and others. Further pertinent data is supplied in additional tables throughout the text. Published in Swedish in three volumes from 1998 to 2000, the contents have been revised and expanded by the author for this English edition. The publication of per Enghag's book *Encyclopedia of the Elements* is a project that the Swedish National Committee has decided to support because the book and its message is important for teachers and pupils in senior high schools and also for students and scientists at the universities. Apart from its considerable scientific and technical value to researchers and professionals in industry, the book is a well-written encyclopedia about the elements, their occurrence and use by mankind. The book is an exciting and also humorous general view of the element discoveries. It lets us meet the discoverers to see how they worked, thought and believed. History of science deals with people and how they act towards scientific facts. One cannot enough emphasize the importance of this type of history to create interest for and understanding of scientific models and ideas. This book is a good example. Bengt Nordén, Chairman of the Nobel Committee for Chemistry of the Royal Swedish Academy of Sciences

Farm Implement News Aug 01 2020

Tales and Traditions of the Eskimo Jan 26 2020

Works, Including the Suppressed Poems Apr 28 2020

Normativity and Diversity in Family Law Jun 30 2020 With regard to family law, this volume examines claims based on cultural tradition, ethnic background, custom, religious affiliation and sexual orientation, as well as various other “claims” that are not officially recognized in state law, in 15 jurisdictions around the world. The country reports seek to determine whether these claims represent a challenge to family law as conceived by the state, and if so, how these challenges are being managed. The focus lies on the interaction between (i) claims and traditions raising minority-related and diversity-related issues and (ii) the state as the addressee of these demands for accommodation. The reports identify specific instances and situations that have proven (and in many cases still are) particularly difficult to resolve. They force decision-makers to engage in a delicate balancing act between different, often clashing interests.

Evaluation of the “Project for the restoration of livelihoods in Khyber Pakhtunkhwa Tribal Districts” Feb 19 2022 The Khyber Pakhtunkhwa Newly Merged Districts have seen a prolonged military conflict leading to the widespread displacement of its population and damages and losses to the agricultural lands, irrigation, and water harvesting structures, and livestock populations. Since 2015, the rehabilitation of the displaced population is ongoing but slow due to loss of livelihoods and reduced income opportunities. To support the restoration of livelihoods, funded by the FCDO, FAO undertook the “Project for the restoration of livelihoods in Khyber Pakhtunkhwa Tribal Districts” which involved training farmers on climate-smart agriculture practices, rehabilitating government facilities/infrastructures, operationalizing small-scale enterprises, and supporting agriculture and livestock production. The evaluation found that while the project was mostly successful in meeting output targets, a critical review of the following elements can further improve programme delivery: realistic target setting, market-led initiatives for value chain development, operation and maintenance plans for rehabilitated schemes, gender-specific interventions, and incorporating anticipated procurement-related delays in the project design.

Meltdown: Money, Debt and the Wealth of Nations, Volume 5 Feb 25 2020

Principles of Islamic Ethics for Contemporary Workplaces Oct 23 2019 Contemporary workplaces are subject to numerous challenges due to the absolute technological takeover of real-time working platforms. Though significant developments to the modern workforce have changed the face of industry significantly, there is a thirst for workplaces where people may achieve material objectives while attaining spiritual satisfaction through their daily activities both at the office and home. Principles of Islamic Ethics for Contemporary Workplaces is an essential reference source that discusses organizational behaviors in relation to Islamic values, beliefs, and work ethics, as well as managerial strategies that follow the Islamic way of life. Featuring research on topics such as contemporary business, diverse workforce, and organizational behavior, this book is ideally designed for managers, business professionals, administrators, HR personnel, academicians, researchers, and students.

John Allen Muhammad, Document Fraud, and the Western Hemisphere Passport Exception Apr 09 2021

Register of Commissioned and Warrant Officers of the United States Navy and Reserve Officers on Active Duty Jun 18 2019

The Federal Employees' Compensation Act (FECA) Mar 08 2021 The Federal Employees' Compensation Act (FECA) is the workers' compensation program for federal employees. Like all workers' compensation programs, FECA pays disability, survivors, and medical benefits, without fault, to employees who are injured or become ill in the course of their federal employment and the survivors of employees killed on the job. The FECA program is administered by the Department of Labor (DOL) and the costs of benefits are paid by each employees' host agency. Employees of the U.S. Postal Service (USPS) currently comprise the largest group of FECA beneficiaries and are responsible for the largest share of FECA benefits. This book examines the key policy issues facing the FECA today, including the disproportionate share of claims and program costs attributed to postal workers, the payment of FECA benefits after retirement age, the overall generosity of FECA disability benefits as compared with those offered by the states, and the overall administration of the FECA program.

Learning MySQL Nov 16 2021 Presents instructions on using MySQL, covering such topics as installation, querying, user management, security, and backups and recovery.

The Chemistry of the Actinide and Transactinide Elements (Set Vol.1-6) Nov 23 2019 The fourth edition of "The Chemistry of the Actinide

and Transactinide Elements" comprises all chapters in volumes 1 through 5 of the third edition (published in 2006) plus a new volume 6. To remain consistent with the plan of the first edition, " ... to provide a comprehensive and uniform treatment of the chemistry of the actinide [and transactinide] elements for both the nuclear technologist and the inorganic and physical chemist," and to be consistent with the maturity of the field, the fourth edition is organized in three parts. The first group of chapters follows the format of the first and second editions with chapters on individual elements or groups of elements that describe and interpret their chemical properties. A chapter on the chemical properties of the transactinide elements follows. The second group, chapters 15-26, summarizes and correlates physical and chemical properties that are in general unique to the actinide elements, because most of these elements contain partially-filled shells of 5f electrons whether present as isolated atoms or ions, as metals, as compounds, or as ions in solution. The third group, chapters 27-39, focuses on specialized topics that encompass contemporary fields related to actinides in the environment, in the human body, and in storage or wastes. Two appendices at the end of volume 5 tabulate important nuclear properties of all actinide and transactinide isotopes. Volume 6 (Chapters 32 through 39) consists of new chapters that focus on actinide species in the environment, actinide waste forms, nuclear fuels, analytical chemistry of plutonium, actinide chalcogenide and hydrothermal synthesis of actinide compounds. The subject and author indices and list of contributors encompass all six volumes.

Compiler Construction Sep 02 2020 Compilers and operating systems constitute the basic interfaces between a programmer and the machine for which he is developing software. In this book we are concerned with the construction of the former. Our intent is to provide the reader with a firm theoretical basis for compiler construction and sound engineering principles for selecting alternate methods, implementing them, and integrating them into a reliable, economically viable product. The emphasis is upon a clean decomposition employing modules that can be re-used for many compilers, separation of concerns to facilitate team programming, and flexibility to accommodate hardware and system constraints. A reader should be able to understand the questions he must ask when designing a compiler for language X on machine Y, what tradeoffs are possible, and what performance might be obtained. He should not feel that any part of the design rests on whim; each decision must be based upon specific, identifiable characteristics of the source and target languages or upon design goals of the compiler. The vast majority of computer professionals will never write a compiler. Nevertheless, study of compiler technology provides important benefits for almost everyone in the field . • It focuses attention on the basic relationships between languages and machines. Understanding of these relationships eases the inevitable transitions to new hardware and programming languages and improves a person's ability to make appropriate tradeoffs in design and implementation .

Reactor Dosimetry Jan 06 2021 "The latest edition of this popular ASTM series provides an extensive overview of the latest advances in reactor dosimetry. As operating nuclear power reactors have aged and continue to operate on extended operating licenses, new pressure vessel surveillance techniques have been required. Eastern European pressurized water reactors, especially those of the VVER-440 type, continue to have greater concerns about steel embrittlement, because of higher neutron radiation exposures than most Western European and US reactors. Accordingly, broader dosimetry studies are being made on the VVER reactors through retrospective dosimetry, ex-vessel dosimetry, and careful re-analysis of previously reported data."--Publisher's website.

From Transuranic to Superheavy Elements Sep 26 2022 The story of superheavy elements - those at the very end of the periodic table - is

not well known outside the community of heavy-ion physicists and nuclear chemists. But it is a most interesting story which deserves to be known also to historians, philosophers, and sociologists of science and indeed to the general public. This is what the present work aims at. It tells the story or rather parts of the story, of how physicists and chemists created elements heavier than uranium or searched for them in nature. And it does so with an emphasis on the frequent discovery and naming disputes concerning the synthesis of very heavy elements. Moreover, it calls attention to the criteria which scientists have adopted for what it means to have discovered a new element. In this branch of modern science it may be more appropriate to speak of creation instead of discovery. The work will be of interest to scientists as well as to scholars studying modern science from a meta-perspective.

Inorganic and Bio-Inorganic Chemistry - Volume I May 22 2022 Inorganic and Bio-Inorganic Chemistry is the component of Encyclopedia of Chemical Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The Theme on Inorganic and Bio-Inorganic Chemistry in the Encyclopedia of Chemical Sciences, Engineering and Technology Resources deals with the discipline which studies the chemistry of the elements of the periodic table. It covers the following topics: From simple to complex compounds; Chemistry of metals; Inorganic synthesis; Radicals reactions with metal complexes in aqueous solutions; Magnetic and optical properties; Inorganometallic chemistry; High temperature materials and solid state chemistry; Inorganic biochemistry; Inorganic reaction mechanisms; Homogeneous and heterogeneous catalysis; Cluster and polynuclear compounds; Structure and bonding in inorganic chemistry; Synthesis and spectroscopy of transition metal complexes; Nanosystems; Computational inorganic chemistry; Energy and inorganic chemistry. These two volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs

Sindh University Research Journal Mar 20 2022

Master Resource Book in Chemistry for JEE Main 2022 Jun 23 2022 1. The 'Master Resource book' gives complete coverage of Chemistry 2. Questions are specially prepared for AIEEE & JEE main exams 3. The book is divided into 2 parts; consisting 35 chapters from JEE Mains 4. Each chapter is accessorized with 2 Level Exercises and Exam Questions 5. Includes highly useful JEE Main Solved papers Comprehensively covering all topics of JEE Main Syllabus, here's presenting the revised edition of "Master Resource Book for JEE Main Chemistry" that is comprised for a systematic mastery of a subject with paramount importance to a problem solving. Sequenced as per the syllabus of class 11th & 12th, this book has been divided into two parts accordingly. Each chapter is contains essential theoretical concepts along with sufficient number of solved paper examples and problems for practice. To get the insight of the difficulty level of the paper, every chapter is provided with previous years' question of AIEEE & JEE. Single Correct Answer Types and Numerical Value Questions cover all types of questions. TOC PART I, Some Basic Concepts of Chemistry, Atomic Structure, Classification of Elements & Periodicity in Properties, Chemical Bonding and Molecular Structure, States of Matter: Gaseous and Liquid States, Chemical Thermodynamics, Equilibrium, Redox Reactions, Hydrogen, s-Block Elements, p-Block Elements-I, Purification and Characterisation of Organic Compounds, Organic Compounds and their Nomenclature, Isomerism in Organic Compounds, Some Basic Principles of Organic Chemistry, Hydrocarbons, Environmental Chemistry, PART II, Solid State, Solutions, Electrochemistry, Chemical Kinetics, Surface Chemistry, General Principles and Processes of Isolation of

Metals, p-Block Elements-II, d and f- Block Elements, Coordination Compounds, Organic Compounds Containing Halogens, Organic Compounds Containing Oxygen, Organic Compounds Containing Nitrogen, Polymers, Biomolecules, Chemistry in Everyday Life, Principles Related to Practical Chemistry.

Networks and Mobilization Processes: The Case of the Japanese Anti-Nuclear Movement after Fukushima Jan 18 2022 Environmental disasters or other large-scale disruptive events often trigger the emergence of social movements demanding social and/or political change. This study investigates mobilization processes at the meso level of the Japanese anti-nuclear movement after the nuclear disaster at the Fukushima Daiichi nuclear power plant caused by the Great East Japan Earthquake and subsequent tsunami waves on March 11, 2011. To capture such meso level movement dynamics – which so far have played only a minor role in research on social movement mobilization – the study presents an analytical model based on premises from political process theory, network theory, and relational sociology. This model is then applied to the case of the Japanese anti-nuclear movement after Fukushima by looking at the relational dynamics of two coalitional movement networks engaged in advocacy-related activities in Tokyo. The first case study is e-shift, a network-coalition working for nuclear phase-out and the promotion of renewable energy; the other is SHSK (Shien? Shimin Kaigi), a coalition pushing for the rights of people affected by radioactive contamination and/or evacuation from contaminated areas. The study traces the mobilization processes of these two networks by analyzing data gathered in 2013 and 2014 in the form of participant observation of movement events, semi-structured interviews with movement organization representatives, and documentary data.

Federal Register Nov 04 2020

Global Forum on Transparency and Exchange of Information for Tax Purposes Peer Reviews: Pakistan 2016 Phase 2: Implementation of the Standard in Practice Mar 28 2020 This report contains the 2014 “Phase 2: Implementation of the Standards in Practice” Global Forum review of Pakistan.

The Herald Jul 20 2019

South African Journal of Chemistry Aug 21 2019

The Transuranium People Jul 24 2022 In this highly interesting book, three pioneering investigators provide an account of the discovery and investigation of the nuclear and chemical properties of the twenty presently known transuranium elements. The neutron irradiation of uranium led to the discovery of nuclear fission in 1938 and then to the first transuranium element, neptunium (atomic number 93), in 1940. Plutonium (94) quickly followed and the next nine elements completed the actinide series by 1961. Investigation of the chemical properties of the actinides was followed more recently by chemical studies of the first three transactinides — rutherfordium (104), hahnium (105), and seaborgium (106). Recent discoveries have extended the known elements to 112. Contents: Neptunium and PlutoniumThe Plutonium PeopleAmericium and CuriumBerkelium and CaliforniumThe “Big Bang”: Discovery of Einsteinium and FermiumMendeleviumNobelium and LawrenciumRutherfordium and HahniumSeaborgiumBohrium (107), Hassium (108), and Meitnerium (109)Elements 110, 111, and 112Naming Controversies and the Transfermium Working GroupSearches for the Superheavy ElementsReflections and Predictions Readership: Undergraduates and graduates in nuclear physics, radiochemistry and the general readers. Keywords:Transuranium People;Neptunium;Transactinides;Rutherfordium;Hahnium;SeaborgiumReviews:“The Transuranium People’ is a splendid tribute to those

who have made the past 60 years a golden age for discovering new elements.”C&EN

The Saturday Evening Post Sep 14 2021

Proceedings of the Robert A. Welch Foundation Conferences on Chemical Research Oct 15 2021

The Chemistry of the Actinide and Transactinide Elements (3rd ed., Volumes 1-5) Dec 25 2019

The Chemistry of the Actinide and Transactinide Elements is a contemporary and definitive compilation of chemical properties of all of the actinide elements, especially of the technologically important elements uranium and plutonium, as well as the transactinide elements. In addition to the comprehensive treatment of the chemical properties of each element, ion, and compound from atomic number 89 (actinium) through to 109 (meitnerium), this multi-volume work has specialized and definitive chapters on electronic theory, optical and laser fluorescence spectroscopy, X-ray absorption spectroscopy, organoactinide chemistry, thermodynamics, magnetic properties, the metals, coordination chemistry, separations, and trace analysis. Several chapters deal with environmental science, safe handling, and biological interactions of the actinide elements. The Editors invited teams of authors, who are active practitioners and recognized experts in their specialty, to write each chapter and have endeavoured to provide a balanced and insightful treatment of these fascinating elements at the frontier of the periodic table. Because the field has expanded with new spectroscopic techniques and environmental focus, the work encompasses five volumes, each of which groups chapters on related topics. All chapters represent the current state of research in the chemistry of these elements and related fields.

Practical Accounting and Cost Keeping for Contractors Feb 07 2021

Official Gazette May 10 2021