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Revision of Penstemon Sections 1971

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SIDA, Contributions to Botany 1965

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

2010-12-20

15

The Chemistry of the Actinide and Transactinide Elements (Set Vol.1-6) 2010-10-21

the first edition of this work appeared almost thirty years ago when as we can see in retrospect the study of the actinide elements was in its first bloom although the broad features of the chemistry of the actinide elements were by then quite well delineated the treatment of the subject in the first edition was of necessity largely descriptive in nature a detailed understanding of the chemical consequences of the characteristic presence of sf electrons in most of the members of the actinide series was still for the future and many of the systematic features of the actinide elements were only

dimly apprehended in the past thirty years all this has changed the application of new spectroscopic techniques which came into general use during this period and new theoretical insights which came from a better understanding of chemical bonding inorganic chemistry and solid state phenomena were among the important factors that led to a great expansion and maturation in actinide element research and a large number of new and important findings the first edition consisted of a serial description of the individual actinide elements with a single chapter devoted to the six heaviest elements lawrencium the heaviest actinide was yet to be discovered less than 15 of the text was devoted to a consideration of the systematics of the actinide elements

Revision of Penstemon (Sect. PENSTEMON) Series GRACILES (Scrophulariaceae), with a Synopsis of the Genus 1965

aimed at researchers and graduate students this book provides up to date information about the electronic interactions that impact the optical properties of rare earth ions in solids its goal is to establish a connection between fundamental principles and the materials properties of rare earth activated luminescent and laser optical materials the theoretical survey and introduction to spectroscopic properties covers electronic energy level structure intensities of optical transitions ion phonon interactions line broadening and energy transfer and up conversion an important aspect of the book lies in its deep and detailed discussions of materials properties and the potential of new applications such as optical storage information processing nanophotonics and molecular probes that have been identified in recent experimental studies this volume will be a valuable reference book on advanced topics of rare earth spectroscopy and materials science

2014-09

19 mwa 2001

National Bureau of Standards Handbook 1961

proceedings of the nato advanced study institute braunlage germany july 11 25 1982

NBS Special Publication 1968

Precision Measurement and Calibration: Temperature 1969

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

National Bureau of Standards Handbook 1961

International Union of Pure and Applied Chemistry (IUPAC) 2018 1st Edition 3 Volumes

Precision Measurement and Calibration 1968

International Union of Pure and Applied Chemistry (IUPAC) 17th Edition 1968 17th Edition 17 Volumes

Socioeconomic Environmental Studies Series 1974

International Union of Pure and Applied Chemistry (IUPAC) Socioeconomic Environmental Studies Series 1974 1974 19 Volumes

The Chemistry of the Actinide Elements 2012-12-06

International Union of Pure and Applied Chemistry (IUPAC) The Chemistry of the Actinide Elements 2012-12-06 2012-12-06 10 Volumes

1980

this report presents the final listing of solar lines recorded in the nrl echelle spectra photographed at high resolution from aerobee rockets flown in 1961 and 1964 the wavelength range covered is 3069Å to 2095Å it is intended to accompany nrl report numbers 7788 an atlas of the solar spectrum between 2226 and 2992 angstroms which presents the solar irradiance at 0.03 Å resolution as derived from the echelle spectra solar wavelengths are given to 0.01 Å and estimated solar intensities are listed on a visual scale of 1 to 9 identifications have been made from a detailed study of the multiplets in individual spectra and are based on a search of the spectroscopic literature laboratory wavelengths multiplet numbers and references are cited for each line approximately 6150 lines are reported of which 80 are identified

Catalog of Copyright Entries. Third Series 1975

the rapidly growing area of photonics plays a critical role in many segments of industry such as optical communications information storage electronic display and other areas and is the subject of intense academic and industrial research the handbook of photonics serves as a single source reference book for this exciting field the book is divided into three sections photonic materials photonic devices and optics photonic systems each chapter within these sections is written by well known and respected authors and covers the latest information in many of the important aspects of photonics the handbook of photonics provides a complete reference for scientists engineers and students working in this field

Spectroscopic Properties of Rare Earths in Optical Materials 2006-01-29

36

2005-02-15

Systematics and the Properties of the Lanthanides 1983-07-31

optical spectroscopy has been instrumental in the discovery of many lanthanide elements in return these elements have always played a prominent role in lighting devices and light conversion technologies auer mantles incandescent lamps lasers cathode ray and plasma displays they are also presently used in highly sensitive luminescent bio analyses and cell imaging this volume of the handbook on the physics and chemistry of rare earths is entirely devoted to the photophysical properties of these elements it is dedicated to the late professor william t bill carnall who has pioneered the understanding of lanthanide spectra in the 1960 s and starts with a dedication to this scientist the following five chapters describe various aspects of lanthanide spectroscopy and its applications chapters 231 presents state of the art theoretical calculations of lanthanide energy levels and transition

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The Solar Spectrum 3069Å-2095Å 1982

Handbook of Photonics 1997-05-05

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Journal of the Optical Society of America 1978

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Circular of the National Bureau of Standards 1959

National Bureau of Standards Circular *1954*

Handbook on the Physics and Chemistry of Rare Earths *2011-09-22*

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Rare Earths Spectroscopy *1985*

Resources in Education *1990-07*

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