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The Elements of Nuclear Power Elements of Nuclear Physics Elements Nuclear Engineering Nuclear Reactions in Heavy Elements The Elements of Nuclear Reactor Theory Heavy Elements and Related New Phenomena The Chemistry of Superheavy Elements The Elements Beyond Uranium Elements of Nuclear Physics Elements of Nuclear Physics Elements of Nuclear Physics Relative Isotopic Abundances of the Elements Superheavy Elements, The Nuclear Properties of the Heavy Elements: Systematics of nuclear structure and radioactivity Nuclear Reactor Fuel Elements Frontier Topics in Nuclear Physics Elements of Nuclear Reactor Design On Beyond Uranium Nuclear Tables: Nuclear reactions. v. 1. The elements from neutron to magnesium. v. 2. The elements from aluminum to sulphur. v. 3. The elements from chlorine to calcium Handbook of Nuclear Chemistry The Elements of Nuclear Reactor Theory The Elements of Nuclear Reactor Theory Modern Nuclear Chemistry Plutonium Nuclear Fuel Elements Origin of Elements in the Solar System Elements of Nuclear Chemistry Nuclear Reactions in Stellar Surfaces and Their Relations with Stellar Evolution Elements Of Nuclei Nuclear Molecules Origin of Elements in the Solar System The Compound Model of Nuclear Structures The Transuranium People Nuclear Systems Volume II Seventy Years of Double Beta Decay Nuclear and Radiochemistry The Nuclear Properties of the Heavy Elements: Fission phenomena Nuclear Astrophysics Nuclear Fuel Elements Nuclear Structure

The Elements of Nuclear Power 1972

first published in 1986 this work should be considered as a simple introduction to nuclear engineering it covers and somewhat enlarges upon a set of courses that the author s currently give at the ecole polytechnique federale of lausanne switzerland

Elements of Nuclear Physics 1979

nuclear reactions in heavy elements a data handbook focuses on the physical constants of the elements the properties of isotopes and data on radioactive decay this book examines the methods for obtaining heavy elements organized into two parts encompassing nine chapters this book begins with an overview of data on neutron cross sections this text then provides salient information on cross sections of photo reactions and of interactions of charged particles with nuclei other chapters consider some general characteristics of the fission process as well as the basic characteristics of spontaneous fission of heavy metals this book discusses as well the basic characteristics of binary fission of heavy nuclei including the energies and yields of fission elements their distribution with regard to mass and the range of fragments the final chapter deals with data on various kinds of radiation accompanying the fission process this book is a valuable resource for physicists and research workers

Elements Nuclear Engineering 2016-04-15

vol 2 pt iii new cluster radioactivity and the superasymmetric fission experiments and theory ch 16 measurements on cluster radioactivity present experimental status r bonetti and a guglielmetti ch 17 numerical and analytical super asymmetric fission model for exotic cluster decays d n poenaru and w greiner ch 18 collective description of exotic cluster decays and shell structure effects of parent daughter nuclei r k gupta ch 19 fine structure in cluster radioactivity m mireia and r k gupta ch 20 super asymmetric cold fission and exotic cluster decay processes r k gupta and w scheid ch 21 cold binary and ternary fragmentations as an extension of cluster radioactivity a sandulescu und weitere pt iv extensions in new directions nuclear astrophysics physics of nuclei near drip lines and strange matter experiments and theory ch 22 nuclear astrophysics at the beginning of the twenty first century r n boyd ch 23 two and three body properties of halo nuclei i j thompson and j s vaagen ch 24 properties of light nuclei near drip lines in the relativistic mean field theory s k patra r k gupta and w greiner ch 25 heavy ion fusion reactions at energies below the coulomb barrier n takigawa and k hagino ch 26 neutron drip line nuclei their halo structure synthesis and decay via cluster emissions r k gupta und weitere ch 27 physics of strange matter carsten greiner and j schaffner bielich

Nuclear Reactions in Heavy Elements 2013-09-03

the second edition of the chemistry of the superheavy elements provides a complete coverage of the chemistry of a series of elements beginning with atomic number 104 the transactinides or superheavy elements including their nuclear properties and production in nuclear reactions at heavy ion accelerators the contributors to this work include many renowned scientists who during the last decades have made vast contributions towards understanding the physics and chemistry of these elusive elements both experimentally and theoretically the main emphasis here is on demonstrating the fascinating studies involved in probing the architecture of the periodic table at its uppermost end where relativistic effects drastically influence chemical properties all known chemical properties of these elements are described together with the experimental techniques applied to study these short lived man made elements one atom at a time the status of theoretical chemistry and of empirical models is presented as well as aspects of nuclear physics in addition one chapter outlines the meanderings in this field from a historical perspective and the search for superheavy elements in nature

The Elements of Nuclear Reactor Theory 1952

written by glenn t seaborg nobel laureate and pre eminent figure in the field with the assistance of walter d loveland it covers all aspects of transuranium elements including their discovery chemical properties nuclear properties nuclear synthesis reactions experimental techniques natural occurrence superheavy elements and predictions for the future published on the fiftieth anniversary of the discovery of transuranium elements it conveys the essence of the ideas and distinctive blend of theory and experiment that has marked their study

Heavy Elements and Related New Phenomena 1999-06-22

for undergraduate physics students or for nuclear engineers

The Chemistry of Superheavy Elements 2013-11-30

detection and measurement of the radiations from radioactive substances general laws of radioactive disintegration alpha beta and gamma radiations and their interaction with matter alpha beta and gamma ray spectra of the natural radioelements general properties of nuclei and the theory of nuclear structure the artificial disintegration of nuclei cosmic rays

The Elements Beyond Uranium 1990-10-24

provides a review of the experimental theoretical investigations of superheavy elements especially their nuclear aspects also presents many new theoretical aspects predictions of the dynamic deformation model developed by the author specific heavy ion fusion experiments which may lead to the discovery of superheavy elements are suggested

Elements of Nuclear Physics 1989

this volume contains the lectures and contributions presented at the nato advanced study institute asi on frontier topics in nuclear physics held at predeal in romania from 24 august to 4 september 1993 the asi stands in a row of 23 predeal summer schools organized by the institute of atomic physics bucharest in predeal or poiana brasov during the last 25 years the main topics of the asi were cluster radioactivity fission and fusion the production of very heavy elements nuclear structure described with microscopic and collective models weak interaction and double beta decay nuclear astrophysics and heavy ion reactions from low to ultrarelativistic energies the content of this book is ordered according to these topics the asi started with a lecture by professor greiner on the present and future of nuclear physics showing the most important new directions of research and the interdisciplinary relations of nuclear physics with other fields of physics this lecture is printed in the first chapter of the book

Elements of Nuclear Physics 1967

in the early nineteenth century chemists knew of the existence of ninety two chemical elements from hydrogen to uranium for nearly forty years scientists thought they knew the content of our planet and all of its contents in the late 1930s the world of chemical science began to discover elements beyond uranium the transuranics these new super heavy elements are probably not found in nature at all but can be detected if only for a few fractions of a second in precisely designed experiments using powerful nuclear tools on beyond uranium journey to the end of the periodic table is full of exciting new concepts and tells the story of the author s quest to discover elements never before known to man

Elements of Nuclear Physics 1936

this revised and extended 6 volume handbook set is the most comprehensive and voluminous reference work of its kind in the field of nuclear chemistry the handbook set covers all of the chemical aspects of nuclear science starting from the physical

basics and including such diverse areas as the chemistry of transactinides and exotic atoms as well as radioactive waste management and radiopharmaceutical chemistry relevant to nuclear medicine the nuclear methods of the investigation of chemical structure also receive ample space and attention the international team of authors consists of scores of world renowned experts nuclear chemists radiopharmaceutical chemists and physicists from europe usa and asia the handbook set is an invaluable reference for nuclear scientists biologists chemists physicists physicians practicing nuclear medicine graduate students and teachers virtually all who are involved in the chemical and radiopharmaceutical aspects of nuclear science the handbook set also provides further reading via the rich selection of references

Relative Isotopic Abundances of the Elements 2013-04-20

modern nuclear chemistry provides up to date coverage of the latest research as well as examinations of the theoretical and practical aspects of nuclear and radiochemistry includes worked examples and solved problems provides comprehensive information as a practical reference presents fundamental physical principles in brief of nuclear and radiochemistry

Superheavy Elements, 1989

one girl s search to find her father using the internet some boys and quite a lot of hairspray from debut ya novelist ellie phillips sadie nathanson spends her life trying to survive the excruciating embarrassment of simply existing it s hard enough being a bit of a shrinking violet within a loud and outspoken extended family but the unexpected card from dad on her 15th birthday is the last straw as dad was an internet sperm donor it doesn t take a genius to work out that this is a bad joke probably set up by her ex best friend shonna but it starts sadie wondering just who was her father is he the cause of her worry crinkle and wonky bum what would happen if she tracked him down so she decides to do just that with help from her nerd cousin billy his friend nodding tony and a regular dose of haironomics sadie s own hairstyle related philosophy system they uncover a lot more than they bargain for a story with wit warmth and knicker wetting embarrassment ellie phillips is a vibrant new voice in teen fiction dad s geeks and blue haired freaks is one of the most original books for young adults you ll ever read perfect for girls moving on from louise rennison and cathy cassidy

The Nuclear Properties of the Heavy Elements: Systematics of nuclear structure and radioactivity 1964

nuclear fuel elements design fabrication and performance is concerned with the design fabrication and performance of nuclear

fuel elements with emphasis on fast reactor fuel elements topics range from fuel types and the irradiation behavior of fuels to cladding and duct materials fuel element design and modeling fuel element performance testing and qualification and the performance of water reactor fuels fast reactor fuel elements research and test reactor fuel elements and unconventional fuel elements are also covered this volume consists of 12 chapters and begins with an overview of nuclear reactors and fuel elements as well as fuel element design and development based on the reactor operator s approach materials scientist s approach and interdisciplinary approach the reader is then introduced to different types of nuclear fuels and their irradiation behavior considerations for using cladding and duct materials in fuel element design and development and fuel element design and modeling the chapters that follow focus on the testing of fuel element performance experimental techniques and equipment for testing fuel element designs and the performance of fuels for water reactors fuel elements for gas cooled reactors fast reactors and research and test reactors are also described the book concludes with an assessment of unconventional fuel elements this book will be useful to fuel element technologists as well as materials scientists and engineers

Nuclear Reactor Fuel Elements 1962

based on an american chemical society symposium organized by professors glenn seaborg and oliver manuel this volume provides a comprehensive record of different views on this important subject at the end of the 20th century they have assembled a blend of highly respected experimentalists and theorists from astronomy geology meteoritics planetology and nuclear chemistry and physics to discuss the origin of elements in the solar system the intent was to include all points of view and let history judge their validity

Frontier Topics in Nuclear Physics 2012-12-06

in the present volume phillip j siemens who has been a seminal contributor to our understanding of the nucleus as a many body system and his able collabourator aksel s jensen introduce graduate students and colleagues in other fields to the basic concepts of nuclear physics in a way which connects clearly the methods of nuclear physics with those of condensed matter atomic and particle physics their book thus provides a lucid introduction to the key facts and concepts of nuclei including many of the most recent developments while emphasizing the similarities and the differences between the behaviour of nuclei atoms elementary particles and condensed matter it should thus prove useful not only as a text for an introductory graduate course in nuclear physics but as a reference book for all scientists interested in a unified picture of our understanding of physical phenomena associated with many body systems

Elements of Nuclear Reactor Design 1977

nuclear molecules are analogous to ordinary electronic molecules valence nucleons are circling nuclear cores and thus bind them they appear in collisions of nuclei on nuclei and in fission and fusion processes here a lively field of research has developed over the past 20 years nuclear molecules are the strongest deformed nuclear complexes and play an important role in nuclear structure cluster physics they are also of considerable interest for the synthesis of elements in astrophysics cosmology most of the various nuclear molecular phenomena are discussed this book is the first monograph exclusively written to cover the theoretical aspects of nuclear molecular phenomena in heavy ion collisions the experimental evidence is presented and confronted with theory

On Beyond Uranium 2018-10-08

based on an american chemical society symposium organized by professors glenn seaborg and oliver manuel this volume provides a comprehensive record of different views on this important subject at the end of the 20th century they have assembled a blend of highly respected experimentalists and theorists from astronomy geology meteoritics planetology and nuclear chemistry and physics to discuss the origin of elements in the solar system the intent was to include all points of view and let history judge their validity

Nuclear Tables: Nuclear reactions. v. 1. The elements from neutron to magnesium. v. 2. The elements from aluminum to sulphur. v. 3. The elements from chlorine to calcium 1968

the objective of this theoretical approach to understanding the structure of the nucleus was to produce a concise model for all the elements in particular the focus was to determine a few simple rules that would define the precise structure of every stable isotope after several years of research and analysis a concise model of just three rules has been achieved this model has exact correlations with the current experimental data for all the stable isotopes

Handbook of Nuclear Chemistry 2010-12-10

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 plutonium the plutonium people americium and curium berkelium and californium the big bang discovery of einsteinium and fermium mendelevium nobelium and lawrencium rutherfordium and hahnium seaborgium bohrium 107 hassium 108 and meitnerium 109 elements 110 111 and 112 naming controversies and the transfermium working group searches for the superheavy elements reflections and predictions readership undergraduates and graduates in nuclear physics radiochemistry and the general readers keywords transuranium people neptunium transactinides rutherfordium hahnium seaborgium reviews 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 Elements of Nuclear Reactor Theory 1975

discusses fundamental ideas for various modeling approaches for the macro and micro scale flow conditions in the reactor covers specific design considerations such as natural convection and core reliability enables the reader to better understand the importance of safety considerations in thermal engineering and analysis of a modern nuclear plant features end of chapter problems includes a solutions manual for adopting instructors

The Elements of Nuclear Reactor Theory 1963

ch 1 double beta decay historical retrospective and perspectives 1 1 from the early days until the gauge theory era 1 2 the nuclear physics side nuclear matrix elements 1 3 double beta decay neutrino mass models and cosmological parameters status and prospects 1 4 other beyond standard model physics from susy and leptoquarks to compositeness and space time structure 1 5 the experimental race from the late eighties to the discovery of symbol decay 1 6 the future of double beta decay 1 7 conclusion ch 2 original articles 2 1 from the early days until the gauge theory era 2 2 the nuclear physics side nuclear matrix elements 2 3 double beta decay neutrino mass models and cosmological parameters status and prospects 2 4 other beyond standard model physics from susy and leptoquarks to compositeness and space time structure 2 5 the experimental race from the late eighties to the discovery of symbol decay 2 6 the future of double beta decay

Modern Nuclear Chemistry 2005-11-08

introduction to radiation chemistry third edition j w t spinks and r j woods the only single source guide to radiation chemistry has now been expanded to include new material on applied radiation chemistry and experimental methods as well as gaseous and solid systems other enhancements include broadened coverage of chemical reactions initiated by high energy and their commercial applications as well as new topics related to kinetics and experimental procedures the third edition features numerical data in SI units simplifying most radiation chemical calculations an expanded problem section and key references updated to reflect recent research 1990 0 471 61403 3 574 pp the elements beyond uranium glenn t seaborg and walter d loveland written by the team of nobel laureate glenn seaborg an active participant in the discovery of transuranium elements and leading chemist walter loveland here is a unique inside account of the discovery of these elements as well as the first definitive look at their chemical physical and nuclear properties the book contains detailed discussions of nuclear synthesis reactions experimental techniques natural occurrence superheavy elements practical applications and predictions for the future as well as such special features as excerpts from original notebooks pictures of element discovery teams and up to date tables of nuclear properties 1990 0 471 89062 6 359 pp

Plutonium 2009

nuclear structure covers material usually discussed in courses about nuclear structure the presentation although recommends and not necessarily requires the reader to have some knowledge of introductory nuclear physics at an elementary or undergraduate level requires a good knowledge of the elements of quantum mechanics including an introduction to dirac theory the text covers topics such as nucleon nucleon forces the boson exchange model high energy electron scattering and the single particle shell model also covered are topics such as single particle potentials spin orbit interactions the individual particle model states of different nuclei electromagnetic interactions with nuclei and beta decay the book is recommended for nuclear physics students who have background knowledge on nuclear structure and would like to know more about the topic

Nuclear Fuel Elements 2013-10-22

Origin of Elements in the Solar System 2007-05-08

Elements of Nuclear Chemistry 1999-09-01

Nuclear Reactions in Stellar Surfaces and Their Relations with Stellar Evolution 1971

Elements Of Nuclei 2018-03-08

Nuclear Molecules 1995

Origin of Elements in the Solar System 2007-05-08

The Compound Model of Nuclear Structures 2012-11-06

The Transuranium People 2000-01-21

Nuclear Systems Volume II 2021-12-13

Seventy Years of Double Beta Decay 2010

Nuclear and Radiochemistry 1981-08-03

The Nuclear Properties of the Heavy Elements: Fission phenomena 1964

Nuclear Astrophysics 1965

Nuclear Fuel Elements 1959

Nuclear Structure 2012-12-02

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