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Compound-Nuclear Reactions Polarization Phenomena in Nuclear Reactions Buildup of Radioactive Products in Thermal Reactors Comparaison Internationale de Codes Pour Le Calcul de Données Nucléaires Aux Énergies Intermédiaires Nuclear Reaction Mechanisms in the Heavy-element Region Laboratory Development of Processes for Fixation of High-level Radioactive Wastes in Glassy Solids Hard Nuclear Processes and Microscopic Nuclear Structure Exclusive & Semi-exclusive Processes At High Momentum Transfer Nuclear data guide for reactor neutron metrology Nuclear Science Abstracts Handbook on Nuclear Activation Data 4th High Energy Heavy Ion Summer Study Plutonium Release Incident of November 20, 1959 Engineering Separations Unit Operations for Nuclear Processing Chiral Dynamics Introduction to Nuclear Science High-energy Physics and Nuclear Structure, 1975 (Santa Fe and Los Alamos, 9-13 June 1975) Evaluation of Nonaqueous Processes for Nuclear Materials Evaluation of Nonaqueous Processes for Nuclear Materials SuperFuel Fission Product Processes In Reactor Accidents Nuclear radiation Bibliography on Nuclear Reactor Fuel Reprocessing and Waste Disposal: Surveys (General) Nuclear Science Abstracts Strong Interactions at Low and Intermediate Energies Strong Interactions at Low and Intermediate Energies The Elements of Nuclear Reactor Theory Chemical Effects of Nuclear Transformations Techniques and Concepts of High-Energy Physics IX Nuclear Science and Technology, a Selective Bibliography Fundamentals of Nuclear Hardening of Electronic Equipment Spin Structure at Long Distance Nuclear Safety Condensed Matter Nuclear Science Energy Research Abstracts Nuclear Engineering Carbon-Neutral Fuels and Energy Carriers INIS Atomindex Accessions of Unlimited Distribution Reports Proceedings of the Workshop on Coincident Particle Emission from Continuum States in Nuclei, Bad Honnef, 4-7 June 1984

Compound-Nuclear Reactions

2021-02-08

the compound nuclear reaction and related topics cnr international workshop series was initiated in 2007 with a meeting near yosemite national park it has since been held in bordeaux 2009 prague 2011 sao paulo 2013 tokyo 2015 and berkeley california 2018 the workshop series brings together experts in nuclear theory experiment data evaluations and applications and fosters interactions among these groups topics of interest include nuclear reaction mechanisms optical model direct reactions and the compound nucleus pre equilibrium reactions fusion and fission cross section measurements direct and indirect methods hauser feshbach theory limits and extensions compound nuclear decays particle and gamma emission level densities strength functions nuclear structure for compound nuclear reactions nuclear energy nuclear astrophysics and other topics this peer reviewed proceedings volume presents papers and poster summaries from the 6th international workshop on compound nuclear reactions and related topics cnr 18 held on september 24 28 2018 at lawrence berkeley national lab berkeley ca

Polarization Phenomena in Nuclear Reactions

1971

in english french

Buildup of Radioactive Products in Thermal Reactors

1968

this book constitutes the proceedings of a workshop on exclusive and semi exclusive processes at high momentum transfer sponsored by the institute for nuclear theory seattle and the thomas jefferson national accelerator facility jefferson laboratory the workshop was inspired by recent progress in the field particularly in the uses of off forward or skewed parton distributions to elucidate nucleon structure this book contains the written versions of 41 scientific talks on subjects including the

aforementioned skewed parton distributions and also on deeply virtual compton scattering semi exclusive or semi inclusive reactions and hard elastic and transition form factors

Comparaison Internationale de Codes Pour Le Calcul de Données Nucléaires Aux Énergies Intermédiaires

1994

engineering separations unit operations for nuclear processing provides insight into the fundamentals of separations in nuclear materials processing not covered in typical texts this book integrates fuel cycle and waste processing into a single coherent approach demonstrating that the principles from one field can and should be applied to the other it provides historical perspectives on nuclear materials processing current assessment and challenges and how past challenges were overcome it also provides understanding of the engineering principles associated with handling nuclear materials this book is aimed at researchers graduate students and professionals in the fields of chemical engineering mechanical engineering nuclear engineering and materials engineering

Nuclear Reaction Mechanisms in the Heavy-element Region

1958

this book provides an authoritative up to date overview of the field of chiral dynamics and also provides an excellent introduction to the field the workshop is known for the interplay of theory and experiment and as a meeting place for most of the leading researchers in the field contents theoretical chiral dynamics h leutwyler experimental chiral dynamics a bernstein cebaf at jefferson lab an overview b mecking lorentz invariant baryon chpt t becher sigma terms j gasser m sainio theory of hadronic atoms a rusetsky effective field theory in nuclear physics m savage nucleon polarizabilities b holstein chiral symmetry in dense hadronic matter w weise the gerasimovcodrellolocohearn sum rule d drechsel and other papers readership researchers academics and graduate students in nuclear and high energy physics

Laboratory Development of Processes for Fixation of High-level Radioactive Wastes in Glassy Solids

1964

based on a course of lectures given at the argonne national laboratory in the summer of 1957 under the directorship of l i katzin and during the summers of 1958 and 1959 under the directorship of the author

Hard Nuclear Processes and Microscopic Nuclear Structure

1988

a working group was assigned the task of evaluating the status of nonaqueous processes for nuclear materials and the prospects for successful deployment of these technologies in the future in the initial evaluation the study was narrowed to the pyrochemical pyrometallurgical processes closely related to the processes used for purification of plutonium and its conversion to metal the status of the chemistry and process hardware were reviewed and the development needs in both chemistry and process equipment technology were evaluated finally the requirements were established for successful deployment of this technology the status of the technology was evaluated along three lines 1 first the current applications were examined for completeness 2 an attempt was made to construct closed cycle flow sheets for several proposed applications 3 and finally the status of technical development and future development needs for general applications were reviewed by using these three evaluations three different perspectives were constructed that together present a clear picture of how complete the technical development of these processes are

Exclusive & Semi-exclusive Processes At High Momentum Transfer

2000-07-20

a riveting look at how an alternative source of energy is revolutionising nuclear power promising a

safe and clean future for millions and why thorium was sidelined at the height of the cold war in this groundbreaking account of an energy revolution in the making award winning science writer richard martin introduces us to thorium a radioactive element and alternative nuclear fuel that is far safer cleaner and more abundant than uranium at the dawn of the atomic age thorium and uranium seemed to be in close competition as the fuel of the future uranium with its ability to undergo fission and produce explosive material for atomic weapons won out over its more pacific sister element relegating thorium to the dustbin of science now as we grapple with the perils of nuclear energy and rogue atomic weapons and mankind confronts the specter of global climate change thorium is re emerging as the overlooked energy source as a small group of activists and outsiders is working with the help of silicon valley investors to build a thorium power industry in the first book mainstream book to tackle these issues superfuel is a story of rediscovery of a long lost technology that has the power to transform the world s future and the story of the pacifists who were sidelined in favour of atomic weapon hawks but who can wean us off our fossil fuel addiction and avert the risk of nuclear meltdown for ever

Nuclear data guide for reactor neutron metrology

1981

the three mile island and chernobyl nuclear incidents emphasized the need for the world wide nuclear community to cooperate further and exchange the results of research in this field in the most open and effective manner recognizing the roles of heat and mass transfer in all aspects of fission product behavior in severe reactor accidents the executive committee of the international centre for heat and mass transfer organized a seminar on fission product transport processes in reactor accidents this book contains the eleven of the lectures and all the papers presented at the seminar along with four invited papers that were not presented and a summary of the closing session

Nuclear Science Abstracts

1971

this volume contains lectures on several topics of great current relevance in strong interaction physics

the lectures were presented at the 13th annual hugs at cebaf summer school to an audience of advanced phd students both theorists and experimentalists they reflect the current trend of nuclear physics research shaped to a large extent by the experimental progress allowed by facilities such as cebaf at jefferson lab where the study of nuclei and the nucleon and its excitations by means of electron scattering can be carried out with unprecedented precision and completeness in a wide kinematic range this volume should serve the graduate student and the researcher equally well

Handbook on Nuclear Activation Data

1987

the ninth advanced study institute as on techniques and concepts of high energy physics was almost canceled before it began a certain visitor to the area hurricane bertha arrived unexpectedly early in 1996 it was the first hurricane in memory to menace the caribbean in early july fortunately it passed st croix several days before our meeting and left very little damage the altar ellis survived the eye of the storm in the in the british west islands the meeting was held once again at the hotel on the cay on that spec of land in the harbor of christiansstedt st croix u s virgin islands after the first two days of at times outrageous downpour the 71 participants from 26 countries began to relax and enjoy the lectures and the lovely surroundings of the institute the primary support for the meeting was provided by the scientific affairs division of the north atlantic treaty organization nato the asi was cosponsored by the u s department of energy by the fermi national accelerator laboratory fermi lab by the u s national science foundation and by the university of rochester in addition the international science foundation contributed to the support of a participant from russia as in the case of the previous asi the scientific program was designed for advanced graduate students and recent ph d recipients in experimental particle physics

4th High Energy Heavy Ion Summer Study

1978

theoretical developments experimental developments future experiments and active analyses

Plutonium Release Incident of November 20, 1959

1959

this bibliography contains 480 annotated references to aec reports and to the open literature a list of pertinent bibliographies an author index and a report number index with availability information are also included

Engineering Separations Unit Operations for Nuclear Processing

2019-11-15

concerns over an unstable energy supply and the adverse environmental impact of carbonaceous fuels have triggered considerable efforts worldwide to find carbon free or low carbon alternatives to conventional fossil fuels carbon neutral fuels and energy carriers emphasizes the vital role of carbon neutral energy sources transportation fuels and a

Chiral Dynamics

2001

Introduction to Nuclear Science

1961

High-energy Physics and Nuclear Structure, 1975 (Santa Fe and Los

Alamos, 9-13 June 1975)

1975

Evaluation of Nonaqueous Processes for Nuclear Materials

1983

Evaluation of Nonaqueous Processes for Nuclear Materials

1983

SuperFuel

2012-05-08

Fission Product Processes In Reactor Accidents

1990-08-01

Nuclear radiation

1957

Bibliography on Nuclear Reactor Fuel Reprocessing and Waste Disposal: Surveys (General)

1960

Nuclear Science Abstracts

1976-06

Strong Interactions at Low and Intermediate Energies

2000

Strong Interactions at Low and Intermediate Energies

2000

The Elements of Nuclear Reactor Theory

1952

Chemical Effects of Nuclear Transformations

1961

Techniques and Concepts of High-Energy Physics IX

2012-12-21

Nuclear Science and Technology, a Selective Bibliography

1958

Fundamentals of Nuclear Hardening of Electronic Equipment

1972

Spin Structure at Long Distance

2009-08-04

Nuclear Safety

1966-12

Condensed Matter Nuclear Science

1992

Energy Research Abstracts

1954

Nuclear Engineering

2016-04-19

Carbon-Neutral Fuels and Energy Carriers

1987

INIS Atomindex

1976-06-25

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1984

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