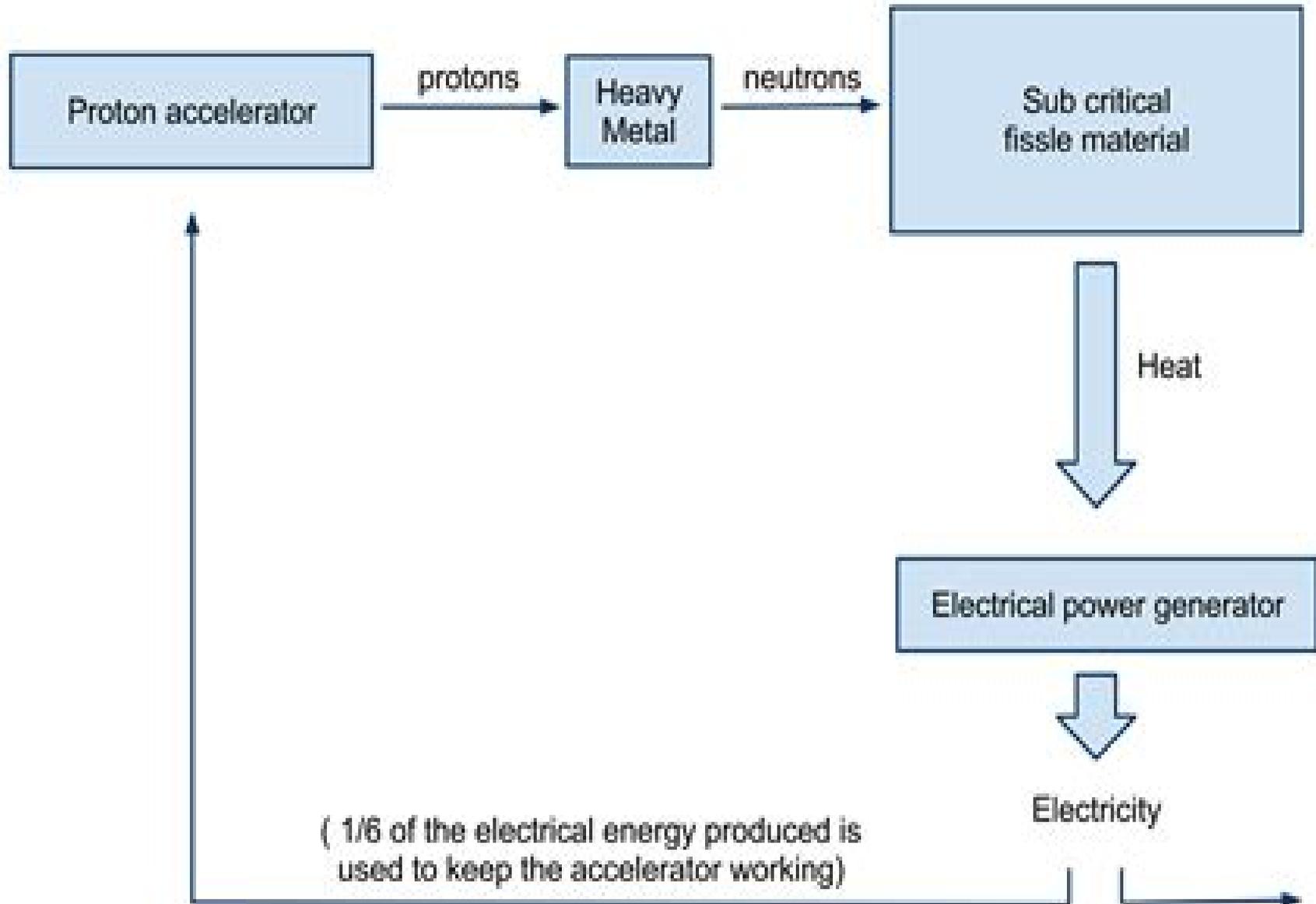


Accelerator Driven Reactor



Accelerator Driven Subcritical Reactors

David Lee



Accelerator Driven Subcritical Reactors:

Accelerator Driven Subcritical Reactors H Nifenecker, O Meplan, S David, 2003-06-01 This book describes the basic knowledge in nuclear neutron and reactor physics necessary for understanding the principle and implementation of accelerator driven subcritical nuclear reactors ADSRs also known as hybrid reactors Since hybrid reactors may contribute to future nuclear energy production the book begins with a discussion of *High Power Ring Methods and Accelerator Driven Subcritical Reactor Application* Malek Haj Tahar, 2017 High power proton accelerators allow providing by spallation reaction the neutron fluxes necessary in the synthesis of fissile material starting from Uranium 238 or Thorium 232 This is the basis of the concept of subcritical operation of a reactor for energy production or nuclear waste transmutation with the objective of achieving cleaner safer and more efficient process than today's technologies allow Designing building and operating a proton accelerator in the 500 1000 MeV energy range CW regime MW power class still remains a challenge nowadays There is a limited number of installations at present achieving beam characteristics in that class e.g. PSI in Villigen 590 MeV CW beam from a cyclotron SNS in Oakland 1 GeV pulsed beam from a linear accelerator in addition to projects as the ESS in Europe a 5 MW beam from a linear accelerator Furthermore coupling an accelerator to a subcritical nuclear reactor is a challenging proposition some of the key issues requirements are the design of a spallation target to withstand high power densities as well as ensure the safety of the installation These two domains are the grounds of the PhD work the focus is on the high power ring methods in the frame of the KURRI FFAG collaboration in Japan upgrade of the installation towards high intensity is crucial to demonstrate the high beam power capability of FFAG Thus modeling of the beam dynamics and benchmarking of different codes was undertaken to validate the simulation results Experimental results revealed some major losses that need to be understood and eventually overcome By developing analytical models that account for the field defects one identified major sources of imperfection in the design of scaling FFAG that explain the important tune variations resulting in the crossing of several betatron resonances A new formula is derived to compute the tunes and properties established that characterize the effect of the field imperfections on the transverse beam dynamics The results obtained allow to develop a correction scheme to minimize the tune variations of the FFAG This is the cornerstone of a new fixed tune non scaling FFAG that represents a potential candidate for high power applications As part of the developments towards high power at the KURRI FFAG beam dynamics studies have to account for space charge effects In that framework models have been installed in the tracking code ZGOUBI to account for the self interaction of the particles in the accelerator Application to the FFAG studies is shown Finally one focused on the ADSR concept as a candidate to solve the problem of nuclear waste In order to establish the accelerator requirements one compared the performance of ADSR with other conventional critical reactors by means of the leveled cost of energy A general comparison between the different accelerator technologies that can satisfy these requirements is finally presented In summary the main drawback of the ADSR technology is the high Leveled Cost Of

Energy compared to other advanced reactor concepts that do not employ an accelerator Nowadays this is a show stopper for any industrial application aiming at producing energy without dealing with the waste problem Besides the reactor is not intrinsically safer than critical reactor concepts given the complexity of managing the target interface between the accelerator and the reactor core

High Power Ring Methods and Accelerator Driven Subcritical Reactor

Application ,2016 High power proton accelerators allow providing by spallation reaction the neutron fluxes necessary in the synthesis of fissile material starting from Uranium 238 or Thorium 232 This is the basis of the concept of sub critical operation of a reactor for energy production or nuclear waste transmutation with the objective of achieving cleaner safer and more efficient process than today's technologies allow Designing building and operating a proton accelerator in the 500 1000 MeV energy range CW regime MW power class still remains a challenge nowadays There is a limited number of installations at present achieving beam characteristics in that class e.g PSI in Villigen 590 MeV CW beam from a cyclotron SNS in Oakland 1 GeV pulsed beam from a linear accelerator in addition to projects as the ESS in Europe a 5 MW beam from a linear accelerator Furthermore coupling an accelerator to a sub critical nuclear reactor is a challenging proposition some of the key issues requirements are the design of a spallation target to withstand high power densities as well as ensure the safety of the installation These two domains are the grounds of the PhD work the focus is on the high power ring methods in the frame of the KURRI FFAG collaboration in Japan upgrade of the installation towards high intensity is crucial to demonstrate the high beam power capability of FFAG Thus modeling of the beam dynamics and benchmarking of different codes was undertaken to validate the simulation results Experimental results revealed some major losses that need to be understood and eventually overcome By developing analytical models that account for the field defects one identified major sources of imperfection in the design of scaling FFAG that explain the important tune variations resulting in the crossing of several betatron resonances A new formula is derived to compute the tunes and properties established that characterize the effect of the field imperfections on the transverse beam dynamics The results obtained allow to develop a correction scheme to minimize the tune variations of the FFAG This is the cornerstone of a new fixed tune non scaling FFAG that represents a potential candidate for high power applications As part of the developments towards high power at the KURRI FFAG beam dynamics studies have to account for space charge effects In that framework models have been installed in the tracking code ZGOUBI to account for the self interaction of the particles in the accelerator Application to the FFAG studies is shown Finally one focused on the ADSR concept as a candidate to solve the problem of nuclear waste In order to establish the accelerator requirements one compared the performance of ADSR with other conventional critical reactors by means of the levelized cost of energy A general comparison between the different accelerator technologies that can satisfy these requirements is finally presented In summary the main drawback of the ADSR technology is the high Levelized Cost Of Energy compared to other advanced reactor concepts that do not employ an accelerator Nowadays this is a show stopper for any industrial application

aiming at producing energy without dealing with the waste problem Besides the reactor is not intrinsically safer than critical reactor concepts given the complexity of managing the target interface between the accelerator and the reactor core

Spent Nuclear Fuel and Accelerator-Driven Subcritical Systems Vinod Kumar Verma, Karel Katovsky, 2018-10-12 This book offers a comprehensive overview of the reprocessing of spent nuclear fuels and discusses the applications of radiation particularly spallation neutrons and gamma rays The unspent nuclear fuel of a reactor amounts to roughly 95 per cent of the loaded fuel It contains both fertile and fissile fuels minor and higher actinides and radioactive fission products In 2015 out of approximately 4 million metric tons of spent fuel only 90 000 metric tons was reprocessed worldwide the rest was either sent to repositories kept for cooling down or put on a waiting list for future reprocessing With regard to the direct reutilization of spent nuclear fuel the new technique of Energy Amplifiers has attracted considerable attention among the nuclear energy community Presenting extensive information on this technique the book is divided into eight major sections i spent nuclear fuel and alternative transmutation methods ii general concept of accelerator driven subcritical systems ADSS iii spallation neutron sources and the possibility of incineration iv requirements for nuclear data v transmutation of spent nuclear fuel and extension of the fuel cycle vi spallation neutron production facilities vii major experimental facilities for ADSS and viii software tools for the design and modelling of ADSS The book is ideally suited as a textbook for graduate students as well as a reference guide for researchers and practitioners

Molten Salt Reactors and Thorium Energy Thomas James Dolan, 2017-06-08 Molten Salt Reactors is a comprehensive reference on the status of molten salt reactor MSR research and thorium fuel utilization There is growing awareness that nuclear energy is needed to complement intermittent energy sources and to avoid pollution from fossil fuels Light water reactors are complex expensive and vulnerable to core melt steam explosions and hydrogen explosions so better technology is needed MSRs could operate safely at nearly atmospheric pressure and high temperature yielding efficient electrical power generation desalination actinide incineration hydrogen production and other industrial heat applications Coverage includes Motivation why are we interested Technical issues reactor physics thermal hydraulics materials environment Generic designs thermal fast solid fuel liquid fuel Specific designs aimed at electrical power actinide incineration thorium utilization Worldwide activities in 23 countries Conclusions This book is a collaboration of 58 authors from 23 countries written in cooperation with the International Thorium Molten Salt Forum It can serve as a reference for engineers and scientists and it can be used as a textbook for graduate students and advanced undergrads Molten Salt Reactors is the only complete review of the technology currently available making this an essential text for anyone reviewing the use of MSRs and thorium fuel including students nuclear researchers industrial engineers and policy makers Written in cooperation with the International Thorium Molten Salt Forum Covers MSR specific issues various reactor designs and discusses issues such as the environmental impact non proliferation and licensing Includes case studies and examples from experts across the globe

Accelerator-induced Transients in Accelerator-driven Subcritical

Reactors Ali Ahmad,2012 Another Introduction to Nuclear Energy Edenilson Brandl, For centuries humanity has sought to understand and harness the fundamental forces of nature This work represents an attempt to delve into one of the most powerful and transformative energy sources the energy locked within atomic nuclei From its humble beginnings in theoretical physics to its pivotal role in shaping modern energy systems the study of nuclear energy has pushed the boundaries of science technology and human ambition This book is designed not only to provide foundational knowledge about nuclear energy but also to explore its future possibilities By examining the intersection of science engineering and policy it seeks to bridge the gap between theoretical understanding and practical application It is written with the hope of fostering informed discussions on how nuclear technology can contribute to sustainable energy solutions while addressing its challenges As you embark on this journey you will encounter topics ranging from the basic principles of atomic structure to the ethical dilemmas surrounding nuclear proliferation The goal is to equip readers with the knowledge to navigate these complex issues and inspire innovative thinking for a better future

Library of Congress Subject Headings Library of Congress, Library of Congress. Subject Cataloging Division, Library of Congress. Office for Subject Cataloging Policy, 2013

Accelerator-induced Transients in Accelerator-driven Subcritical Reactors 'Alī Aḥmad, 2013 □□□□□□□□ □□□□ □□
2002, □□□□□□□□ □□□□□□□□ *Neutron Production with Thorium Fuel in Accelerator Driven Subcritical Reactors* David Lee, 2018 *Library of Congress Subject Headings* Library of Congress. Cataloging Policy and Support Office, 2013

Space-time Analysis for Reactivity Determination in Source-driven Subcritical Systems Viktoriya V. Kulik, 2004

Accelerator-Driven System at Kyoto University Critical Assembly Cheol Ho Pyeon, 2021-03-19 This open access book is a unique compilation of experimental benchmark analyses of the accelerator driven system ADS at the Kyoto University Critical Assembly KUCA on the most recent advances in the development of computational methods It is devoted especially to nuclear engineers and scientists Readers will find a detailed description of advanced measurement techniques and calculation methodologies for the ADS with 14 MeV neutrons and high energy neutrons with combined use of 100 MeV protons and Pb Bi target at KUCA Additionally experimental results of nuclear transmutation of minor actinides by ADS and at a critical state are included Readers also have access to benchmarks of specific ADS experiments with raw data in the Appendix The book is a valuable resource for the ADS experiments at KUCA which are globally recognized as both static and kinetic studies from the point of view of fundamental research

Active and Passive Safety Control Performance in Sub - Critical, Accelerator - Driven Nuclear Reactors ,2002 Traditional safety performance requirements for nuclear reactors have been developed for critical reactors whose kinetics characteristics differ significantly from sub critical accelerator driven nuclear reactors In a critical nuclear reactor relatively small amounts of reactivity negative or positive can produce large changes in the fission rate In sub critical reactors the self multiplication k decreases as the sub criticality $1 - k$ increases and the responsiveness to small reactivity changes decreases This makes sub critical nuclear reactors less

responsive to positive reactivity insertions than critical reactors Also larger negative reactivity insertions are needed in sub critical reactors to shut down the fission chain if the neutron source remains This paper presents the results from a computational analysis of the safety performance of sub critical accelerator driven nuclear reactors Coupled kinetics and thermal hydraulics models are used to quantify the effectiveness of traditional protection and control system designs in sub critical reactors The analyses also quantify the role of inherent passive reactivity feedback mechanisms in sub critical reactors Computational results are used to develop conclusions regarding the most favorable and effective means for reactor control and protection in sub critical accelerator driven nuclear reactors

Accelerators for Subcritical Molten-Salt Reactors, 2011 Accelerator parameters for subcritical reactors have usually been based on using solid nuclear fuel much like that used in all operating critical reactors as well as the thorium burning accelerator driven energy amplifier proposed by Rubbia et al An attractive alternative reactor design that used molten salt fuel was experimentally studied at ORNL in the 1960s where a critical molten salt reactor was successfully operated using enriched U235 or U233 tetrafluoride fuels These experiments give confidence that an accelerator driven subcritical molten salt reactor will work better than conventional reactors having better efficiency due to their higher operating temperature having the inherent safety of subcritical operation and having constant purging of volatile radioactive elements to eliminate their accumulation and potential accidental release in dangerous amounts Moreover the requirements to drive a molten salt reactor can be considerably relaxed compared to a solid fuel reactor especially regarding accelerator reliability and spallation neutron targetry to the point that much of the required technology exists today It is proposed that Project X be developed into a prototype commercial machine to produce energy for the world by for example burning thorium in India and nuclear waste from conventional reactors in the USA

Utilisation and Reliability of High Power Proton Accelerators, 2003 This publication presents the proceedings of a NEA workshop held in May 2002 in the US to discuss RandD activities regarding the use of high power proton accelerators in nuclear energy systems Issues discussed include the reliability of the accelerator and the impact of beam interruptions on the design and performance of accelerator driven systems spallation target design characteristics and their impact on the subcritical system design safety and operational characteristics of a subcritical system driven by a spallation source and test facilities

Partitioning and Transmutation (P & T) 1997 Åsa Enarsson, 1998

Sixth International Conference of the Balkan Physical Union Balkan Physical Union. International Conference, Balkan Physical Union, 2007-05-15 This book contains the proceedings of the Sixth International Conference of the Balkan Physical Union BPU 6 held in Istanbul Turkey in August 2006 The BPU 6 Conference covers the most important results and trends in physics including Nuclear physics and nuclear energy gravitation and cosmology alternative sources of energy econophysics biophysics and medical physics history of philosophy of physics meteorology and instrumentation

Proceedings, 1997

Unveiling the Magic of Words: A Review of "**Accelerator Driven Subcritical Reactors**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Accelerator Driven Subcritical Reactors**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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