



# Fast Reactor Fuel Cycles

**Wolfgang Guggemos**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

## **Fast Reactor Fuel Cycles:**

Fast Reactor Fuel Cycles, 1982 Proceedings of an International Conference organized by the British Nuclear Energy Society and co sponsored by the Royal Society of Chemistry and the Institution of Metallurgists LONDON 9 12 NOVEMBER 1981      **Status of Developments in the Back End of the Fast Reactor Fuel Cycle** International Atomic Energy

Agency, 2011 Closed fuel cycle schemes in combination with fast reactors are emerging as the key strategy for sustainable development of nuclear energy The back end fuel cycles for fast reactors and thermal reactors mainly differ with respect to the reprocessing operations This publication highlights emerging innovations and R D needs for the back end of the fast reactor fuel cycle with emphasis on reprocessing of spent mixed uranium and plutonium based ceramic and metallic fuels The publication has been prepared in collaboration with experts from Member States and will serve as a useful resource for nuclear scientists and engineers involved in fast reactor fuel development as well as reprocessing of spent nuclear fuel for sodium cooled fast reactors

**Closed Nuclear Fuel Cycle with Fast Reactors** Evgeny Adamov, 2022-07-18 Closed Nuclear Fuel Cycle with Fast Reactors Handbook of Russian Nuclear Power provides unique insights into research and practical activities from leading Russian experts It presents readers with unprecedented insight and essential knowledge surrounding nuclear fast reactor technologies as well as novel methods to close the nuclear fuel cycle to achieve cleaner more environmentally friendly and more efficient nuclear power Using the Proryv Project as a framework the book s contributors provide detailed descriptions of technologies in development in Russia allowing readers from around the globe to gain a thorough understanding which they can then apply to their own research and practice Nuclear engineers and technologists of fast reactors advanced reactors and fuel cycles will use this book as a guide to inform new technology development They will be able to use the experiences from the Proryv Project to drive fast reactor development with closed fuel cycles for the future Provides a presentation of new nuclear reactor and fuel cycle technologies within the unique framework of Russia s Proryv Project Presents novel technologies to close the nuclear fuel cycle to promote cleaner and more environmentally protective nuclear power Includes thorough coverage on the topic including core design coolants fuels accident protection and waste management technologies

**Improving Fuel Cycle Design and Safety Characteristics of a Gas Cooled Fast Reactor** Willem Frederik Geert van Rooijen, 2006 The Generation IV Forum is an international nuclear energy research initiative aimed at developing the fourth generation of nuclear reactors envisaged to enter service halfway the 21st century One of the Generation IV reactor systems is the Gas Cooled Fast Reactor GCFR the subject of study in this thesis The Generation IV reactor concepts should improve all aspects of nuclear power generation Within Generation IV the GCFR concept specifically targets sustainability of nuclear power generation The Gas Cooled Fast Reactor core power density is high in comparison to other gas cooled reactor concepts Like all nuclear reactors the GCFR produces decay heat after shut down which has to be transported out of the reactor under all circumstances The layout of the primary system

therefore focuses on using natural convection Decay Heat Removal DHR where possible with a large coolant fraction in the core to reduce friction losses

Sodium Fast Reactors with Closed Fuel Cycle Baldev Raj,P. Chellapandi,P.R. Vasudeva Rao,2015-04-15 Sodium Fast Reactors with Closed Fuel Cycle delivers a detailed discussion of an important technology that is being harnessed for commercial energy production in many parts of the world Presenting the state of the art of sodium cooled fast reactors with closed fuel cycles this book Offers in depth coverage of reactor physics materials design s

*The Benefits of an Advanced Fast Reactor Fuel Cycle for Plutonium Management* ,1996 The United States has no program to investigate advanced nuclear fuel cycles for the large scale consumption of plutonium from military and civilian sources The official U S position has been to focus on means to bury spent nuclear fuel from civilian reactors and to achieve the spent fuel standard for excess separated plutonium which is considered by policy makers to be an urgent international priority Recently the National Research Council published a long awaited report on its study of potential separation and transmutation technologies STATS which concluded that in the nuclear energy phase out scenario that they evaluated transmutation of plutonium and long lived radioisotopes would not be worth the cost However at the American Nuclear Society Annual Meeting in June 1996 the STATS panelists endorsed further study of partitioning to achieve superior waste forms for burial and suggested that any further consideration of transmutation should be in the context of energy production not of waste management

2048 The U S Department of Energy DOE has an active program for the short term disposition of excess fissile material and a focus area for safe secure stabilization storage and disposition of plutonium but has no current programs for fast reactor development Nevertheless sufficient data exist to identify the potential advantages of an advanced fast reactor metallic fuel cycle for the long term management of plutonium Advantages are discussed

*Fast Reactors and Related Fuel Cycles* S. Monti,2015 This publication presents the proceedings of an international conference in the field of fast reactors and related fuel cycle technologies The conference provided a unique forum to discuss national and international fast reactor programmes analyse new experience and advances arising from research and development programmes and identify needs to be addressed in relation to the industrial deployment of fast reactors A CD ROM with invited papers and contributed papers accompanies this publication and is available on this website The papers in these Proceedings were peer reviewed by members of the International Scientific Programme Committee Publisher s description

**Nuclear Fuel Cycle** B. S. Tomar,P. R. Vasudeva Rao,S. B. Roy,Jose P. Panakkal,Kanwar Raj,A. N. Nandakumar,2023-05-15 The present book describes the various processes involved in different stages of the entire nuclear fuel cycle which include exploration of uranium thorium and other nuclear materials mining and milling of ores conversion of the separated nuclear material into nuclear grade fabrication of different types of nuclear fuels and their physical as well as chemical quality control thermodynamics of the interaction among fuel and fission products during reactor operation post irradiation examination spent fuel reprocessing radioactive waste management accounting and control of nuclear materials and safety aspects involved in handling and

transportation of nuclear materials The book provides the fundamental knowledge to the practicing nuclear scientists and engineers young researchers and postgraduate students interested in pursuing a career in nuclear industry in general and those engaged in human resource development in the field of nuclear science and technology in particular It can also be prescribed as a textbook for a course on nuclear fuel cycle at postgraduate level

**Internationalization of the Nuclear Fuel Cycle** Russian Academy of Sciences,Russian Committee on the Internationalization of the Civilian Nuclear Fuel Cycle,National Research Council,National Academy of Sciences,Division on Earth and Life Studies,Nuclear and Radiation Studies Board,Policy and Global Affairs,Committee on International Security and Arms Control,U.S. Committee on the Internationalization of the Civilian Nuclear Fuel Cycle,2009-01-26 The so called nuclear renaissance has increased worldwide interest in nuclear power This potential growth also has increased in some quarters concern that nonproliferation considerations are not being given sufficient attention In particular since introduction of many new power reactors will lead to requiring increased uranium enrichment services to provide the reactor fuel the proliferation risk of adding enrichment facilities in countries that do not have them now led to proposals to provide the needed fuel without requiring indigenous enrichment facilities Similar concerns exist for reprocessing facilities Internationalization of the Nuclear Fuel Cycle summarizes key issues and analyses of the topic offers some criteria for evaluating options and makes findings and recommendations to help the United States the Russian Federation and the international community reduce proliferation and other risks as nuclear power is used more widely This book is intended for all those who are concerned about the need for assuring fuel for new reactors and at the same time limiting the spread of nuclear weapons This audience includes the United States and Russia other nations that currently supply nuclear material and technology many other countries contemplating starting or growing nuclear power programs and the international organizations that support the safe secure functioning of the international nuclear fuel cycle most prominently the International Atomic Energy Agency

Proliferation-proof Uranium/Plutonium and Thorium/Uranium Fuel Cycles: Safeguards and Non-Proliferation Kessler, Guenter,2017-02-20 Thermal and neutron physics analysis show that above certain concentrations of the isotope Pu 238 hypothetical nuclear explosive devices made of reactor grade plutonium are technically not feasible Future proliferation proof fuel cycles are proposed which make use of methods of actinide transmutation Reactors operating in the thorium uranium fuel cycle are loaded with

**Nuclear Proliferation and Civilian Nuclear Power: Reactor and fuel cycle descriptions** United States. Office of the Assistant Secretary for Nuclear Energy,1980

**A Comparison of Typical Fuel Cycle Costs for Thermal and Nonthermal Sodium-cooled Reactors** K. W. Foster,1961

**Reactor Fuel Processing** ,1963

**Fast Reactor Fuel Cycle (videorecording)**. United Kingdom Atomic Energy Authority,1986

**Power Reactor Technology and Reactor Fuel Processing** ,1963

**Fast Reactors and Related Fuel Cycles: Challenges and Opportunities (FR09)** International Atomic Energy Agency,2012 This is the proceedings of an international conference on fast reactors and related

fuel cycles convened to exchange experience and innovative ideas in order to achieve progress in this field Fast reactor programs are currently on an accelerated growth path in many countries of the world and the last international fast reactor conference was held almost twenty years ago The scope of discussion included key scientific and technological areas such as fuels and materials development safety advanced simulation component and system design and coolant technology in which innovation is pursued to ensure that the next generations of fast reactor fuel cycles will achieve their potential The accompanying CD ROM contains the contributed papers and posters summaries of 150 oral presentations and the young generation event

**Nuclear Science Abstracts** ,1976      **Plutonium Fuel Fabrication and Reprocessing for Fast Ceramic Reactors** E. L. Zebroski,H.W. Alter,G. D. Collins,1962      *The Technology of the Integral Fast Reactor and Its Associated Fuel Cycle* W. H. Hannum,1996      Fast Reactor Fuel Cycle Costs and Temperature Coefficients of Reactivity for PuO<sub>2</sub>-SS and PuO<sub>2</sub>-UO<sub>2</sub> ,1963

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