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Nota di contenuto	Intro -- Preface -- Contents -- Contributors -- 1 Introduction -- 1.1 Kyoto University Critical Assembly -- 1.1.1 KUCA Facility -- 1.1.2 Solid-Moderated and Solid-Reflected Cores -- 1.1.3 Light-Water-Moderated and Light-Water-Reflected Core -- 1.1.4 Pulsed-Neutron Generator -- 1.1.5 Fixed-Field Alternating Gradient Accelerator -- 1.2 Accelerator-Driven System -- 1.2.1 Overview of Research and Development -- 1.2.2 Feasibility Study at KUCA -- References -- 2 Subcriticality -- 2.1 Feynman- and Rossi- Analyses -- 2.1.1 Experimental Settings -- 2.1.2 Formulae for Data Analyses -- 2.1.3 Results and Discussion -- 2.2 Power Spectral Analyses -- 2.2.1 Experimental Settings -- 2.2.2 Formula for Power Spectral Analyses -- 2.2.3 Results and Discussion -- 2.3 Beam Trip and Restart Methods -- 2.3.1 Experimental Settings -- 2.3.2 Data Analyses Method -- 2.3.3 Results and Discussion -- 2.4 Conclusion -- References -- 3 Reactor Kinetics -- 3.1 -Fitting Method -- 3.1.1 Experimental Settings -- 3.1.2 Numerical Simulations -- 3.1.3 Results and Discussion -- 3.2 Pulsed-Neutron Source Method -- 3.2.1 Experimental Settings -- 3.2.2 Results and Discussion -- 3.3 Inverse Kinetic Method -- 3.3.1 Theoretical Background -- 3.3.2 Experimental Settings -- 3.3.3

Transient Analyses -- 3.4 Conclusion -- References -- 4 Effective Delayed Neutron Fraction -- 4.1 Dependency of External Neutron Source -- 4.1.1 Experimental Settings -- 4.1.2 Numerical Simulations -- 4.1.3 k-Ratio Method -- 4.2 Measurement -- 4.2.1 Nelson Number Method -- 4.2.2 Experimental Settings -- 4.2.3 Results and Discussion -- 4.3 Evaluation of eff/β -- 4.3.1 Experimental Settings -- 4.3.2 Kinetics Parameters -- 4.3.3 Results and Discussion -- 4.4 Neutron Generation Time -- 4.4.1 Experimental Settings -- 4.4.2 Results and Discussion -- 4.5 Conclusion -- References -- 5 Neutron Spectrum.

5.1 Subcritical Multiplication Factor -- 5.1.1 Theoretical Background -- 5.1.2 Characteristics of the Target -- 5.1.3 Effects of Neutron Spectrum -- 5.2 Threshold Energy Reactions -- 5.2.1 Foil Activation Method -- 5.2.2 Activation Foils -- 5.3 Spectrum Index -- 5.3.1 Cd Ratio -- 5.3.2 In Ratio -- 5.4 Spallation Neutrons -- 5.4.1 Neutron Spectrum Analyses -- 5.4.2 Reaction Rates -- 5.5 Conclusion -- References -- 6 Nuclear Transmutation of Minor Actinide -- 6.1 Integral Experiments at Critical State -- 6.1.1 Critical Irradiation Experiments -- 6.1.2 Experimental Analyses -- 6.1.3 Discussion -- 6.2 ADS Irradiation at Subcritical State -- 6.2.1 Experimental Settings -- 6.2.2 Demonstration of Nuclear Transmutation -- 6.3 Conclusion -- References -- 7 Neutronics of Lead and Bismuth -- 7.1 Sample Reactivity Worth Experiments -- 7.1.1 Core Configuration -- 7.1.2 Experimental Settings -- 7.2 Monte Carlo Analyses -- 7.2.1 Evaluation Method -- 7.2.2 Lead Sample Reactivity Worth -- 7.2.3 Bismuth Sample Reactivity Worth -- 7.3 Sensitivity Coefficients -- 7.3.1 Theoretical Background -- 7.3.2 Lead Isotopes -- 7.3.3 Bismuth Isotope -- 7.4 Uncertainty Quantification -- 7.4.1 Theoretical Background -- 7.4.2 Lead Isotopes -- 7.4.3 Bismuth Isotope -- 7.5 Conclusion -- References -- 8 Sensitivity and Uncertainty of Criticality -- 8.1 Experimental Settings -- 8.1.1 Core Configuration -- 8.1.2 Reactivity Measurements -- 8.2 Criticality -- 8.2.1 Numerical Simulations -- 8.2.2 Sensitivity and Uncertainty -- 8.2.3 Results and Discussion -- 8.3 Benchmarks -- 8.3.1 Experimental Analyses -- 8.3.2 Uncertainty -- 8.4 Conclusion -- References -- Appendix A1: Experimental Benchmarks on ADS at Kyoto University Critical Assembly -- A1.1 Experimental Settings of ADS Benchmarks -- A1.1.1 Core Components -- A1.1.2 Atomic Number Density of Core Elements -- References.

Appendix A2: ^{235}U -Fueled and Pb-Bi-Zoned ADS Core -- A2.1 Pb-Bi Target -- A2.1.1 Core Configurations -- A2.1.2 Results of Experiments -- A2.1.2.1 Reaction Rate Distribution -- A2.1.2.2 PNS and Feynman-Methods -- A2.2 Subcriticality Measurements -- A2.2.1 Core Configurations -- A2.2.2 Results of Experiments -- A2.2.3 PNS and Feynman- Methods -- A2.3 Reaction Rates -- A2.3.1 Core Configurations -- A2.3.2 Reaction Rate Distributions -- A2.3.3 Reaction Rates of Activation Foils -- References -- Appendix A3: ^{235}U -Fueled and Pb-Zoned ADS Core -- A3.1 Core Configurations -- A3.1.1 ADS with 14 MeV Neutrons -- A3.1.2 ADS with 100 MeV Protons -- A3.2 Kinetics Parameters -- A3.2.1 ADS with 14 MeV Neutrons -- A3.2.1.1 Core Condition at Critical State -- A3.2.1.2 Case D1 (4560 HEU Plates) -- A3.2.1.3 Case D2 (4400 HEU Plates) -- A3.2.1.4 Case D3 (4320 HEU Plates) -- A3.2.1.5 Case D4 (4200 HEU Plates) -- A3.2.1.6 Case D5 (4080 HEU Plates) -- A3.2.1.7 Case D6 (3840 HEU Plates) -- A3.2.2 ADS with 100 MeV Protons -- A3.2.2.1 Core Condition at Critical State -- A3.2.2.2 Case F1 (4560 HEU Plates) -- A3.2.2.3 Case F2 (4440 HEU Plates) -- A3.2.2.4 Case F3 (4320 HEU Plates) -- A3.2.2.5 Case F4 (4200 HEU Plates) -- A3.2.2.6 Case F5 (4080 HEU Plates) -- A3.2.2.7 Case F6 (3960 HEU Plates) -- A3.2.2.8 Case F7 (3840 HEU

Plates) -- A3.3 Reaction Rates -- A3.3.1 Core Configurations -- A3.3.2 Reaction Rate Distribution -- References -- Appendix A4: 235U-Fueled ADS Core in Medium-Fast Spectrum -- A4.1 Core Configurations -- A4.1.1 ADS with 14 MeV Neutrons -- A4.1.2 ADS with 100 MeV Protons -- A4.2 Results of Experiments -- A4.2.1 Criticality and Control Rod Worth -- A4.2.2 PNS and Feynman- Methods -- A4.3 Kinetic Parameters -- A4.3.1 ADS with 14 MeV Neutrons -- A4.3.2 ADS with 100 MeV Protons -- A4.4 Reaction Rates -- A4.4.1 Core Configurations. A4.4.2 Reaction Rate Distributions -- A4.4.3 Reaction Rates of Activation Foils -- References -- Appendix A5: 232Th-Fueled ADS Core -- A5.1 Core Configurations -- A5.2 Results of Experiments -- A5.2.1 Reaction Rate Distributions -- A5.2.2 PNS and Feynman- Methods -- References.

Sommario/riassunto

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.
