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712 Nuclear Reactor Analysis 275 Construction of Homogenized Multigroup Cross Sections 275 Criticality and Flux Distribution Calculations 276 Fuel Cycle Analyses 277 Transient Analyses 278 Core Operating Data 279 Criticality Safety Analysis 279 713 Interaction of Reactor Physics and Reactor Thermal Hydraulics 280 Power Distribution 280

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1 Petrov YuV A New Concept of a Nuclear Fission Reactor SafetyPreprint of Leningrad Nuclear Physics Institute, N 144, 1991 (in Russian) 2 Carminati F, Klapisch R, Revol J ea An Energy Amplifier and Inexhaustible Nuclear Energy Production Driven by a Particle Beam Accelerator Preprint CERN/AT-93- 47 (ET), 1993 3

G4-STORK: Stochastic Calculations of Reactor Kinetics

particle physics code for reactor physics applications It was built using the Geant4 Monte Carlo toolkit and is designed to model the continuous evolution of a population of neutrons in space and time From this evolution, various important reactor physics quantities ...

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Jan 25, 2018 · Aldo Zenoni, Brescia University, CERN January, 25, 2018 10 Damage of materials by radiation is a long-known technological problem Space science Nuclear reactor technology Accelerator technology 1963 1970 1981 CERN 1980-2000 ITER 1999 In accelerator technology and nuclear physics research, CERN Yellow Reports are the MAIN reference information

Journal of Physics: Conference Series PAPER OPEN ACCESS ...

Materials for Nuclear Reactor Safety by Experiments and Cern-Fluka Monte Carlo Simulation Code, Geant4 and WinXCom Bünyamin 3 Aygün1, Turgay Korkut2 and Abdulhalik Karabulut 1Atatürk University Faculty of Science, Department of Physics, Erzurum, Turkey, 2Sinop University, Faculty of Engineering, Department of Nuclear Engineering, Sinop

Interaction of the CERN Large Hadron Collider (LHC) Beam ...

CERN/DG-2008-196-O 15th July 2008 MEMORANDUM Interaction of the CERN Large Hadron Collider (LHC) Beam matter of concern in safety against nuclear hazards holding a PhD in nuclear reactor physics and engineering, has questioned publicly the “possibility of a chain reaction from nuclear fusion” in the graphite dump of the LHC beams

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astrophysics communities, but some of the results would also be of interest to the reactor physics community On the international front, there are plans for various types of relevant cross section measurements at the CERN n-TOF facility (Tassan-Got, 2001), although this effort has

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In this section an overview of the existing and planned nuclear reactor types and the experience with fast breeder reactors (FBR) is given (21) This is followed by a basic summary of the most important principles relevant for the use of nuclear fission and fusion energy (22 to 24) 21 Facts on the existing and planned nuclear reactor types

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B-physics [13], has recently joined the DØcollaborationat US Fermilab 4 APPLIED PHYSICS 41 Activation analysis Although the Dalat nuclear reactor is a very powerful tool for the activation analysis, the microtron and neu-tron generator in Hanoi offer the advantage of high energy neutrons, which are used to analyze some light elements

Professor Director of the Nuclear Energy Technology Centre ...

Author of over 100 scientific papers in nuclear technology, nuclear data and solid state physics PhD at the University of Mining and Metallurgy in Krakow (Poland) based on the work done on design of the fast pulsed research reactor IBR-2 in Dubna, Russia This reactor is still in operation and serves neutron scattering community