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the book presents physics and computation, mathematics and numerical simulations for nuclear and particle physics. the author provides an overview on numerical simulation and provides insight into the infrastructure supporting the simulations that are performed on supercomputers. mathematical and computational methods are illustrated with examples including the calculation of spherical harmonics on triangles, the analysis of nucleon-nucleon potentials in lattice qcd, and the application of cubic splines for a numerical solution of the dirac equation. the interesting application of liquid-drop model is discussed. different numerical methods for particle accelerators and detectors are discussed. finally, the rapid advances in molecular biology are discussed and their relevance to nuclear research is presented. nuclear physics and particle physics in this book covers multiple topics that represent the state of the art in physics today. the book is intended for graduate students, researchers and professionals who are interested in the field of nuclear and particle physics. nuclear and particle physics is a unique resource that presents a range of contemporary problems in this important branch of physics. the review presents several methods and algorithms used in all three major areas of accelerator physics. the first section describes the most advanced programs available on accelerator and detector simulators. in the next section, the author presents a detailed discussion of various methods of tracking in high-energy particle physics. this section covers various charged-particle detectors, including: electron and proton calorimeters, high-rate thin silicon detectors, wire chambers, and calorimeters. later in the book, various applications in accelerators and colliders are discussed. the last section presents applications in nuclear physics with specific focus on methods used in the field of nuclear and particle physics.

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both print and electronic publications (pdf format) can be accessed at journal's web site: <http://www.sciencedirect.com/science/article/pii/S0168583X20000677> <http://www.com/science/article/pii/S0168583X18307764> the author accepts the responsibility to obtain permission to reproduce or otherwise use any copyright material. the final publication is licensed under the terms and conditions of the material. for permission details copyright of articles published in sciencedirect is held by the publisher and they may be ordered to transfer the copyright to the authors. a full list of authors in original papers can be found in the authors section at the end of each article. article authors can submit a copyright transfer form by going to sciencedirect help: the plutonium-239 and the americium-241 are the two important building blocks in atomic bombs. the nuclear properties of plutonium and americium formed in the fusion process of carbon and neon are analyzed in this paper. the nuclear structure, electronic structure and decay properties of these two isotopes are summarized. the energy difference between the ground state and first excited state and the state change barriers are calculated for plutonium-239 and americium-241. the spontaneous fission half-lives of americium-241 and plutonium-239 are determined to be 0.63 y and 52.9 y respectively. radionuclide formation in nuclear reactors is an important issue for power plant design. several fission products from plutonium and americium are considered. neutron induced transmutation of actinide elements is considered in this article. the gamma spectra of the actinide elements taken from nuclear data bank are compared with the calculated gamma ray spectra. the computed gamma ray spectra of am is compared with the measured spectra for the following 24 nuclides: am-66, am-67, am-69, am-70, am-71, am-73, am-74, am-75, am-76, am-79, am-80, am-81, am-82, am-83, am-84, am-86, am-87, am-90, am-93, am-95, am-96, am-97 and am-99. the computed spectra are in good agreement with experimental results for am-66 and am-84. the gamma ray spectra of am-80, am-83, am-84, am-89 and am-90 are in good agreement with experimental data. 5ec8ef588b

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