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Dictionary Of Nuclear Engineering: In English, German, French And Russian



Synopsis

Nuclear engineering involves the application of nuclear power, radioactive and stable isotopes, and nuclear radiation. This dictionary emphasises principally the utilization of nuclear power and presents terms relating to the non-biological uses of nuclear energy, ionizing radiations, and isotopes. This volume covers the following subjects: Nuclear and Atomic Physics: Atomic physics, including atom models - Nuclear fusion, including plasma physics - Nuclear physics (low-energy), including neutron physics, nuclear models, nuclear reactions, nuclear structure. Nuclear Radiation and Isotopes: Isotope and radiation research and technology - Isotope enrichment and separation - Isotope production - Radiation effects, including physical radiation effects, radiation chemistry - Radiation sources - Radiochemistry and nuclear chemistry - Uses in science and engineering, including nuclear geology. Nuclear Materials: Characteristics - Manufacturing - Processing - Properties - Storage - Transportation. Nuclear Facilities: Irradiation facilities - Nuclear reactors, including fusion reactors, power reactors, reactor physics, research reactors and other types of reactors. Nuclear Power Industry: Fuel cycle, including fuel element fabrication, nuclear fuel fabrication, nuclear power stations (construction, decommissioning, design, economics, equipment, integration into the grid, materials, operation, personnel training, prospects, safety and reliability) - Other uses of nuclear energy, including direct conversion of energy (MHD generators, radioisotope batteries), heat production, nuclear explosions. Nuclear Weapons: All terms included feature references to their respective technological spheres, thus enabling users to select accurately the appropriate expressions. The terminology proper has, to a very large extent, been verified by consultation of the specialist literature in the original language, thereby ensuring optimal precision and reliability.

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... can effectively serve also as a thesaurus for writers of papers on nuclear engineering. Other laudable features are the inclusion of abbreviations as separate items with references to their meaning, the subject category indications, and the indication of the gender of a given word in German and French. The dictionary will, therefore, be of help not only to translators and readers of publications in foreign languages, but also to authors writing in any of the four languages. Its publication can only be warmly welcomed as a very useful contribution to the literature on nuclear engineering. Annales of Nuclear Research

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