
Effects Radiation Semiconductors Vavilov Viktor Sergeevich

effects of radiation on semiconductors deistvie izluchenii ... - effects of radiation on semiconductors deistvie izluchenii na poluprovodniki ,z:(emctbhe i13jy11ehi1m ha itojiyitpobo,llhi1ki1 . effects of radiation on semiconductors by viktor sergeevich vavilov authorized translation from the russian ... results of the studies radiation effects in semiconductors are **radiation effects in transistors - link.springer** - radiation effects in transistors 1. experimental determination of the properties of irradiated transistors. a study of semiconductor devices under irradiation has shown that most failures are due to considerable changes in the properties of the transistors. an example of this is the failure of the american **stability of semiconductor memory characteristics in a ...** - stability of semiconductor memory characteristics in a radiation environment 37 (a) (b) fig. 4: the simulation of 100 kev protons passing through 1mm thick layer of sio2(50 histories) a) trajectory of protons in xoy plane b) distribution of stopped protons along the oxide depth **ionization effects in damage production in semiconductors** - ionization effects in damage production in semiconductorst j. w. corbetts and j. c. bourgoin groupe de physique des solides de l'e.n.s.. 0 wniversiti pans vii, tour 23, 2 place jussieu, 75221 pans cedex 05 (received july 12,1976) it is well established that the presence of ionizing radiation alone is sufficient to create point defects in **general disclaimer one or more of the following statements ...** - one or more of the following statements may affect this document ... s. vavilov, radiation damage in semiconductors, p. 115, academic ... because of the known, time dependent effects, there is reason to believe that laboratory irradiations may have somewhat different effects **the effects of electron and proton irradiation on thin ...** - a third reason for studying these radiation effects is the possibility of extracting fundamental infor-mation about the radiaton damage process in the semiconductors from which the cells are made. for example, the first accurate measurements of radiation damage thresholds in ge, si, gaas and **biatio\$?-induced ykotocgnductivitu of i corelli** - measuring effects of radiation-induced defects in semiconductors it can determine the energy levels of defects without heating the sample and annealing the defects in the process. recent experiments (1) have shown that one can also determine the atomic and electronic configurations of the defects by using \$* uniaxial stress and polarized light **9. v. s. vavilov et al., defect formation and migration ...** - s. vavilov et al., defect formation and migration mechanisms in semiconductors [in russian], nauka, moscow (1981). determination methods for metrological parameters ... radiation fluxes and so on ... **techniques for nuclear and particle physics experiments** - techniques for nuclear and particle physics experiments a how-to approach second revised edition ... the landau and vavilov theories 50 2.7 the interaction of photons 53 ... biological effects of radiation 69 3.1 dosimetric units 69 3.1.1 the roentgen 69 **principles of radiation interaction in matter and ...** - 2.1.2.2 the landau-vavilov solutions for the transport ... radiation environments and damage in silicon semiconductors 325 4.1 radiation environments 327 4.1.1 high-luminosity machines environments for particle ... 7.1.6 radiation effects on low-resistivity base spreading-resistance 612 7.2 single event effects 614 **physics (phys) - illinois institute of technology** - physics (phys) 3 phys 561 radiation biophysics energy loss by ionizing radiation. target theory. direct and indirect action. radiation effects in biomolecules. radiation inactivation of enzymes, nucleic acids, and viruses. biological effects of ultraviolet radiation. photosensitization. radiation protection and sensitization. **open access proceedings journal of physics: conference series** - journal of physics: conference series paper open access ... stokes fluorescence stimulated an active discussion between vavilov and pringsheim concerning the (a) (b) ... based on a rate-equation theory, in which the effects of nonradiative, radiative and auger ... **5. a.v. beloglazov, v. m. stuchebnikov, v. v. khasikov, et ...** - v.s. vavilov and n. a. ukhin, radiation effects in semiconductors and semiconductor instruments [in russian], atomizdat, moscow (1960). 9. g.l. bit and g. e. pikus, symmetry and deformation-induced defects in semiconductors [in russian], nauka, moscow (1972). calculation and experimental investigation of the heat removal ... **picosecond optoelectronics - researchgate** - vices made of semiconductors can switch relatively simply ... the vavilov-cherenkov radiation in electrooptic sig- ... several effects and is generally longer, exceeding by a large ...

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