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# Terrestrial Neutron Induced Soft Errors In Advanced Memory Devices

**modeling cosmic ray proton induced terrestrial neutron a ...** - modeling cosmic ray proton induced terrestrial neutron flux: a look-up table andrew c. overholt,1,2 adrian l. melott,1 and dimitra atri3,4 received 21 december 2012; revised 4 april 2013; accepted 2 june 2013; published 26 june 2013. **scaling effects on neutron-induced soft error in srams ...** - effect[3], gate leakage[4] and so on. terrestrial neutron-induced single event upset (seu) are one of such key issues that can be a major setback in scaling. in particular, "multi-cell upsets (mcus)", which are defined as simultaneous errors in more than one memory cell induced by a single event, have been under close scrutiny [5-9]. **observation and analysis of neutron-induced single-event ...** - observation and analysis of neutron-induced single-event burnout in silicon power diodes [1] shoji t., nishida s., hamada k., tadano h. journal of publication title ieee transactions on power electronics volume 30 number 5 page range 2474-2480 year 2015-05 [2] (c) 2014 ieee. **neutrons for radiation hardness studies: neutron induced ...** - neutrons for radiation hardness studies: neutron induced single event effects jeffery wyss (wyss@unicas) infn padova & university of cassino jeffery wyss (wyss@unicas) infn padova & university of cassino 17 november 2009 17 november 2009 edited and corrected 10 december 2009 edited and corrected 10 december 2009 **soft-errors induced by terrestrial neutrons and natural ...** - soft-errors induced by terrestrial neutrons and natural alpha-particle emitters in advanced memory circuits at ground level j.l. austrana\*, ... of separation of neutron and alpha-particle emitter contributions 0026-2714/\$ - see front matter 2010 elsevier ltd. ... soft-errors induced by terrestrial neutrons and natural alpha-particle emitters in ... **single-event upsets and microelectronics (why neutrons ...** - terrestrial neutrons and effect on semiconductors two types of neutron-induced seu experiments - accelerated testing using external beam of neutrons • individual chips, or system tested • use the acceleration factor, ~ 1e6 • flux from source integrated over energy  $\gamma > 10$  mev / terrestrial (nyc) flux **neutron irradiation test facilities - world scientific** - terrestrial neutron-induced soft errors in advanced memory devices 140 table 4.1 neutron source facilities for semiconductor-irradiation test listed in ref. [4.2]. **energy deposition mechanisms for proton- and neutron ...** - increase the effects of proton-induced radiation due to proton-induced fission in w. proton-induced fission is shown to occur in w for incident protons with sufficiently high energy ( $> \leftarrow 100$  mev). it is shown that the high-let secondaries from proton-induced fission are sufficiently ionizing to cause the effects reported by schwank et al. [6]. **dangerous effects induced on power mosfets by terrestrial ...** - dangerous effects induced on power mosfets by terrestrial neutrons a theoretical study and an empirical approach based on accelerated experimental analysis **neutron-induced soft error analysis in mosfets from a 65nm ...** - we have analyzed terrestrial neutron-induced soft errors in mosfets from a 65 nm to a 25 nm design rule by means of multi-scale monte carlo simulation using phits-hyenes code system. the resulting scaling trend of sers per bit is still decreasing similar to other predictions. from this analysis, it is clarified that secondary he and **single event upset: an embedded tutorial - auburn university** - semiconductors at terrestrial altitude. the neutron flux is dependent on the altitude above the sea level, the density of the neutron flux increases with altitude. 3) the third significant source of ionizing particles in electronic devices is the secondary radiation induced from the interaction of cosmic ray neutrons and boron. **terrestrial and space radiation effects on sic power devices** - • each and every sic power device needs to be tested for terrestrial neutrons for commercial applications, and additional tests are required for space applications • coolcad can perform terrestrial neutron, heavy ion, gamma, x-ray, e-beam, proton, and various other radiation tests for qualification and characterization **measuring the radiation reliability of sram structures in ...** - experience radiation-induced errors, including those originating from the terrestrial neutron radiation environment [2]. when gpus are employed in gaming or video editing applications, radiation reliability may not be a primary issue as a certain number of failures can be tolerated [3]. in contrast,

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