

Guide to the 2012 IEEE Radiation Effects Data Workshop Record

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Abstract— The 2012 Workshop Record has been reviewed and a table prepared to facilitate the search for radiation response data by part number, type, or effect.

I. INTRODUCTION

IN this paper a Guide to the 2012 Radiation Effects Data Workshop (REDW) Record is provided [1]. The Workshop Record (WR) published each year is a permanent archive of the REDW. It serves as a key source of radiation response data for the radiation effects community (REC). It also provides descriptions of radiation effects test facilities, standards, and environments. Although the record provides a cumulative index that can be used to locate papers based on author and title it is difficult to search for response data on a particular part number, type, or radiation effect. To simplify this search as an ongoing effort each year a table is prepared for that year's WR [2-5]. In this table the following information is provided for each paper:

- Cumulative Index Number
- Page number in Workshop Record
- Name of first author
- Part Number(s)
- Part Type(s)
- Manufacture(s)
- Data
 - Terrestrial or Flight
- Radiation Effect(s) Evaluated
 - Total Ionizing Dose
 - Co⁶⁰ High Dose Rate
 - Co⁶⁰ Low Dose Rate (ELDRS)
 - x-ray
 - pions
 - Protons
 - Electrons
 - Single Event Effects due to: heavy ions, protons, neutrons, and laser
 - Single Event Upset (SEU)
 - Single Event Transient (SET)
 - Single Event Functional Interrupt (SEFI)
 - Single Event Latchup (SEL)
 - Single Event Burnout (SEB)
 - Single Event Gate Rupture (SEGR)

- Single Event Burnout (SEB)
- Single Event Gate Rupture (SEGR)
- Dose rate
- Displacement Damage
 - Protons
 - Neutrons
- Facilities
- Shielding

II. RESPONSE DATA SEARCH

This paper contains the Table for REDW 2012 in Table I. Tables for all WR's are available on the NSREC website <http://www.nsrec.com/redw/>. The tables are provided in Portable Document Format (pdf) and a search can simply be performed using capabilities built into the Adobe Acrobat software. Once the paper(s) with the response data required has been located it is the radiation effects engineer's responsibility to perform a detailed review to establish applicability of the response data. Individual copies of the full papers are available online at IEEE Xplore[®].

III. 2012 WORKSHOP RECORD SUMMARY

The 2012 Workshop Record has thirty four high quality papers. It provides radiation response data on a wide range of devices, circuits, and systems.

IV. CONCLUSIONS

The Guide to the 2012 IEEE Radiation Effects Data Workshop provides an efficient way to search for response data on a particular part number, type, or radiation effect.

V. REFERENCES

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Conference On The High Energy Radiation Background In Space Workshop Record

**Oliver Allanson, Xiao-Jia
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X-ray and Gamma-ray Detectors and Applications IV Ralph B. James, 2002 We are developing 10 mm thick CZT detectors with 3 D readout for 100 keV to 1.5 MeV gamma rays Multiple site gamma ray interactions are fully measured i.e. the energy and 3 D position of each site are determined Spatial resolution is 1 mm FWHM Anode pixel readout with 1 mm pitch is used for x and y positions and charge drift times for z positions Drift time measurements are triggered by the cathode signal and end when each interaction site s charge cloud reaches an anode pixel Post event processing corrects for signal loss due to charge trapping and accurately determines gamma ray energies with a goal of 1% energy resolution at 662 keV Compton kinematic analysis can identify the initial interaction site in most cases as well as constrain the incident gamma ray direction Tests were made with a prototype detector measuring 10 x 10 x 10 mm³ and operated at 1000 V bias The measured drift time resolution of 25 nsec FWHM at 662 keV and 60 nsec at 122 keV corresponds to z position resolution of 0.25 and 0.60 mm FWHM respectively The technique is described and results of modeling and tests are presented Advanced

Nondestructive Evaluation for Structural and Biological Health Monitoring ,2001 **Space Directorate Research and Technology Accomplishments for FY 1988** ,1989 **International Aerospace Abstracts** ,1993 *Medical Imaging* ,2000 **High Energy Physics Index** ,1989 Large Space Structures & Systems in the Space Station Era John J. Ferrainolo, George F. Lawrence, 1990

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