Introduction

The performance of electronic systems in the space environment is often limited by the vulnerability to single-event effects (SEE), and aging effects caused by displacement damage (DD). Interpreting the results of SEE, TID, and DD testing of complex devices is quite difficult due to the complexity of the processes involved. The methodologies to study the interaction between the physical process, the materials, and the electronic devices are also not fully understood. The need for improved understanding of the interaction of radiation with electronic devices is critical for the design and testing of radiation-hardened electronics.

Resources for Radiation Test Data

- **NASA**: The NASA rad-hard parts search interface is featured in Figure 1. The search interface allows users to search for parts that have been tested for radiation effects. The NASA GSFC Radiation Effects and Analysis Database (NSERAD) provides information on parts that have been tested for radiation effects. The NASA GSFC Radiation Effects and Analysis Database (NSERAD) provides information on parts that have been tested for radiation effects.

- **Google**: Search engines, such as Google, are also useful resources. Figure 2 shows the Google search results for DC-DC Converters manufactured by Crane. Figure 3 shows the NEPP search tool allows Google searches of the NEPP web resources. The NEPP search tool allows Google searches of the NEPP web resources.

- **IEEE**: The IEEE Radiation Effects Data Workshop (REDW) provides a valuable resource for researchers and engineers. The REDW database shows REDW year, paper number and page(s), title, author(s), journal, conference, etc. The IEEE Radiation Effects Data Workshop (REDW) provides a valuable resource for researchers and engineers.

- **ESCC**: The European Space Components Information Exchange System (ESCC) provides a valuable resource for researchers and engineers. The ESCC website provides detailed information on the radiation effects of space components. The ESCC website provides detailed information on the radiation effects of space components.

- **Texas Instruments Radiation Data for Space**: The Texas Instruments Radiation Data for Space website provides detailed information on the radiation effects of space components. The Texas Instruments Radiation Data for Space website provides detailed information on the radiation effects of space components.

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- **Defense Logistics Agency (DLA) Land and Maritime**: The Defense Logistics Agency (DLA) Land and Maritime maintains qualification data. Figure 4 shows a screen capture of the DLA Radiation Features for Aeroflex UT8Q512 512K X 8-bit rad-hard low voltage digital IC search interface. The DLA parts search interface offers the ability to search for DLA parts that have been tested for radiation effects. The DLA parts search interface offers the ability to search for DLA parts that have been tested for radiation effects.

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