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HANDBOOK OF RADIATION EFFECTS

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AND LEN ADAMS



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HANDBOOK OF RADIATION EFFECTS

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Radiation Effects Handbook

**Institute of Electrical and Electronics
Engineers**



Radiation Effects Handbook:

Handbook of Radiation Effects Andrew Gordon Holmes-Siedle, 1994 **Handbook of Radiation Effects** Andrew Holmes-Siedle, Len Adams, 1993 Of requirements for steady state radiation sources Cosmic ray upset simulation Heavy ions Fission fragments Laser light Dosimetry for radiation testing Test procedures for semiconductor devices Comparison of space with military requirements Radiation response specifications Product assurance techniques and special radiation assessment ESA SCC and ECSS specifications Europe BS 9000 specifications and CECC Europe MIL specifications USA ASTM specifications USA Electronic Industries Association EIA USA Comparison of standards Engineering materials Time dependent effects and post irradiation effects Radiation hardening of semiconductor parts Methodology of total dose hardening Hardening of a process Material preparation and cleaning Oxide growth Oxide anneal Gate electrode Modified gate insulators Field oxide hardening Other processing steps Hardening for total dose by layout Hardening against transient radiation Pulsed gamma rays Single event upsets Commercial radiation hard and radiation tolerant technologies Deep submicron technology Silicon on insulator SOI Standard products Fabless manufacturer Hardening of parts other than silicon Equipment hardening and hardness assurance Elementary rules of hardening Hardening measures at the systems level Robots diagnostics and military vehicles in penetrating radiation Manipulators for nuclear plant Hardening of a robotic vehicle **Radiation Effects Handbook**, 1963 Space Radiation Effects Laboratory Space Radiation Effects Laboratory, Langley Research Center, 1968* **Radiation Effects Design Handbook**, 1971 *Handbook of Space-radiation Effects on Solar-cell Power Systems* William C. Cooley, Robert J. Janda, 1963 Prepared under contract for NASA by Exotech Incorporated Alexandria Virginia and reproduced photographically from copy supplied by the contractor **Handbook of Nuclear Radiation Effects** Wright Air Development Center, 1956 *Handbook of Environmental Degradation of Materials* Myer Kutz, 2005-06-02 Industry pays an enormous price for material degradation The Handbook of Environmental Degradation of Materials outlines these costs but more importantly explains how to measure analyze and prevent environmental degradation for a wide range of industrial materials Experts from around the world share how a diverse set of industries cope with the degradation of metals polymers reinforced concrete clothing and wood under adverse environmental conditions such as weather seawater and fire Case studies show how organizations from small consulting firms to corporate giants design and manufacture products that are more resistant to environmental effects By implementing these standards companies of all sizes should realize savings beneficial to their operations **Radiation Effects Design Handbook** M. Kangilaski, 1971 **Radiation Effects Design Handbook** J. E. Drennan, 1971 Radiation Effects Design Handbook J. E. Drennan, D. J. Hamman, 1971 CRC Handbook of Tables for Applied Engineering Science Ray E. Bolz, 1973-05-15 New tables in this edition cover lasers radiation cryogenics ultra sonics semi conductors high vacuum techniques eutectic alloys and organic and inorganic surface coating Another major addition is expansion of the sections on

engineering materials and composites with detailed indexing by name class and usage The special Index of Properties allows ready comparisons with respect to single property whether physical chemical electrical radiant mechanical or thermal The user of this book is assisted by a comprehensive index by cross references and by numerically keyed subject headings at the top of each page Each table is self explanatory with units abbreviations and symbols clearly defined and tabular material subdivided for easy reading *Radiation Effects Design Handbook: The radiations in space and their interactions with matter*, 1971 **Radiation Effects Handbook** Radiation Technology Subcommittee of the IEEE Nucleonics

Committee, Institute of Electrical and Electronics Engineers, Radiation Effects Subcommittee of the IEEE Electrical Insulation Committee, 1963 *Radiation Effects Design Handbook: Transistors*, 1971 Handbook of Space-Radiation Effects on

Solar-Cell Power Systems National Aeronautics and Space Administration, William C. Cooley, Robert J. Janda, 2014-01-30 In order that photovoltaic solar cells may be used more effectively to provide electrical power for spacecraft it is desirable to refine the engineering design of solar cells and power systems based on a better understanding of the space radiation environment and of radiation damage effects on semiconductor components The objective of this handbook is to provide a summary of some of the useful analytical methods and test data which can be applied in designing radiation resistant power systems It is found that the most serious obstacle which prevents accurate prediction of solar cell degradation for earth satellites is our inadequate knowledge of the fluxes and energy spectra of electrons and protons in the magnetosphere When the space environment can be better defined it will be possible to predict more accurately the degradation of present day types of silicon solar cells for which the radiation damage characteristics have been quite well determined by laboratory research As improved types of solar cells and materials become available it will be necessary to make laboratory measurements of their radiation resistance to protons and electrons in order to predict their performance in space Therefore the performance data presented herein may become obsolete However it is hoped that the methods for data correlation and analysis presented here will be an aid to understanding the nature of the problems involved and will be useful in the conduct of engineering analysis **Transient Radiation Effects on Electronics (TREE) Handbook Formerly Design**

Handbook for TREE, Chapters 1-6, 1995 The objectives of the Transient Radiation Effects on Electronics TREE Handbook are to 1 provide information about radiation effects on semiconductor devices and materials 2 provide guidelines for microelectronic radiation hardening technology and 3 serve as a reference for radiation hardness assurance and microelectronic radiation testing The radiation environments addressed in this handbook include those produced by nuclear weapons effects NWE and natural space The NWE environment includes x rays gamma rays and neutrons The natural space environment includes photons and electrons trapped in the Van Allen belt and neutrons heavy ions and cosmic rays found in space Radiation Effects Handbook Institute of Electrical and Electronics Engineers, 1963 **Clinical Engineering**

Handbook Joseph F. Dyro, 2004-08-27 As the biomedical engineering field expands throughout the world clinical engineers

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Transient-radiation Effects on Electronics Handbook Richard K. Thatcher, Defense Atomic Support Agency, 1967. It is the purpose of this document to present information which will be useful to the circuit design engineer when designing electronic systems for survival in a nuclear burst environment. The information presented covers only those areas directly related to electronic parts, circuits, and systems. The nuclear burst environment which is covered is both transient and steady state and includes all radiation effects except EMP. Areas which are covered in detail are the interaction of transient radiation with matter, discrete semiconductor devices, integrated circuits, capacitors, resistors, circuit hardening, and circuit analysis techniques. Supplementing this document is a classified TREE Handbook which discusses the nuclear weapon burst environment, interaction of transient radiation with matter, and system hardening.

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