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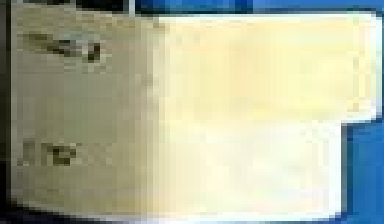
HANDBOOK OF RADIATION EFFECTS

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AND LEN ADAMS



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HANDBOOK OF RADIATION EFFECTS



Radiation Effects Handbook

J. E. Drennan



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 Nuclear Radiation Effects Wright Air Development Center, 1956 **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 Radiation Effects Design Handbook J. E. Drennan, 1971 *Radiation Effects Design Handbook* M. Kangilaski, 1971 **Radiation Effects Design Handbook** J. E. Drennan, D. J. Hamman, 1971 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 *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 semi conductor 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 *Radiation Effects Design Handbook: Transistors* ,1971 **Handbooks** Defense Documentation Center (U.S.),1962 **Shock and Vibration Environment** Wendell L. Hercules,1962 **Radiation Effects Handbook** Institute of Electrical and Electronics Engineers,1963 **Effect of Ionizing Radiation on the Chlorination of Mixtures of Rutile, Carbon, and Various Catalysts** Andrew A. Cochran,P. W. Martin,1962 **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 Scientific and Technical Aerospace Reports ,1989

The Enigmatic Realm of **Radiation Effects Handbook**: Unleashing the Language is Inner Magic

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