



ESD BOOK

Protection from electrostatic discharges in the electronic environments

Preface

This publication is intended to help users in understanding and prevent the Electrostatic Discharges Phenomena, it is not a substitute for reference to the ESD or Safety Standards. The information given in this ESD BOOK is based on CEI/IEC 61340-5-1 and CEI/IEC 61340-5-2 published by the International Electrotechnical Commission, 3, rue de Varambe, Geneva, Switzerland. (www.iec.ch). It is recommended to buy the IEC 61340-5-1 Technical Report and IEC 61340-5-2 Technical Specification, or their national versions, as IEC documents, they have world-wide applicability.

Standards

IEC 61340-5-1:

Protection of electronic devices from electrostatic phenomena - General requirements (2008)

IEC 61340-5-2:

Protection of electronic devices from electrostatic phenomena - User Guide

IEC 61340-4-1:

Electrical resistance of floor coverings and installed floors

ANSI/ESD S20.20-2007:

Protection of Electrical and Electronic Parts, Assemblies and Equipment USA, 1999

ANSI/ESD S541-2003:

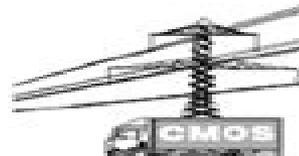
Packaging Materials for ESD Sensitive Items USA - 2003

What is ESD?

Electrostatic discharge is defined as the transfer of charge between bodies at different electrical potentials. The electrostatic charge occurs when two different materials rub or slide together or are separated.

Examples are: walking over synthetic floors, rubbing of synthetic garments, shifting of plastic boxes, unrolling of PVC adhesive tape, moving of conveyor belt.

When two objects with different charges get closer, electrons can suddenly flow from one object to the other.



ESD can also occur when a high electric field develops between two objects in close proximity.

ESD can results in:

Electronics And Environments

India. Parliament. Lok Sabha

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Extreme Environment Electronics John D. Cressler, H. Alan Mantooth, 2012-11-26 Unfriendly to conventional electronic devices circuits and systems extreme environments represent a serious challenge to designers and mission architects The first truly comprehensive guide to this specialized field Extreme Environment Electronics explains the essential aspects of designing and using devices circuits and electronic systems intended to operate in extreme environments including across wide temperature ranges and in radiation intense scenarios such as space The Definitive Guide to Extreme Environment Electronics Featuring contributions by some of the world's foremost experts in extreme environment electronics the book provides in depth information on a wide array of topics It begins by describing the extreme conditions and then delves into a description of suitable semiconductor technologies and the modeling of devices within those technologies It also discusses reliability issues and failure mechanisms that readers need to be aware of as well as best practices for the design of these electronics Continuing beyond just the paper design of building blocks the book rounds out coverage of the design realization process with verification techniques and chapters on electronic packaging for extreme environments The final set of chapters describes actual chip level designs for applications in energy and space exploration Requiring only a basic background in electronics the book combines theoretical and practical aspects in each self contained chapter Appendices supply additional background material With its broad coverage and depth and the expertise of the contributing authors this is an invaluable reference for engineers scientists and technical managers as well as researchers and graduate students A hands on resource it explores what is required to successfully operate electronics in the most demanding conditions

Electronics and Environments Charles Eric Jowett, 1973 **Information Seeking in Electronic Environments** Gary Marchionini, 1995 Significant amounts of our time and energy are devoted to creating managing and avoiding information Computers and telecommunications technology have extended our regard for information and are driving changes in how we learn work and play One result of these developments is that skills and strategies for storing and retrieving information have become more essential and more pervasive in our culture This book considers how electronic technologies have changed these skills and strategies and augmented the fundamental human activity of information seeking The author makes a case for creating new interface designs that allow the information seeker to choose what strategy to apply according to their immediate needs Such systems may be designed by providing information seekers with alternative interface mechanisms for displaying and manipulating multiple levels of representation for information objects Information Seeking in Electronic Environments is essential reading for researchers and graduate students in information science human computer interaction and education as well as for designers of information retrieval systems and interfaces for digital libraries and archives

Extreme-temperature and Harsh-environment Electronics Vinod Kumar Khanna, 2017 Electronic devices and circuits are employed by a range of industries in testing conditions from extremes of high or low temperature in chemically corrosive

environments subject to shock and vibration or exposure to radiation This book presents material selections with design and fabrication methods for operating electronics in such extremes Extreme-Temperature and Harsh-Environment Electronics (Second Edition) Vinod Kumar Khanna,2023-07-12 This second edition describes the various materials devices and technologies required to make electronics capable of operating in harsh conditions such as exposure to extreme temperatures humidity or radiation Implantable medical electronics vibration tolerant electronics space electronics electromagnetic interference prevention and methods for hostile electronic jamming and hacking mitigation are also discussed *Electronics and Electronic Materials for Harsh Environments* ,2004 *Environmental Testing Techniques for Electronics and Materials* Geoffrey W. A. Dummer,Norman B. Griffin,2013-10-22 Environmental Testing Techniques for Electronics and Materials reviews environmental testing techniques for evaluating the performance of electronic equipment components and materials Environmental test planning test methods and instrumentation are described along with the general environmental conditions under which equipment must operate This book is comprised of 15 chapters and begins by explaining why environmental testing is necessary and describing the environment in which electronics must operate The next chapter considers how an environmental test plan is designed the methods for the environmental testing of components and materials instrumentation and control of test chambers shock and vibration test instrumentation and requirements for specification writing The reader is then introduced to factors that might affect the reliability of equipment including high humidity environment galvanic corrosion problems high and low temperature environments mechanical and associated hazards transport hazards and long term storage Problems posed by high altitude and space environments nuclear radiation and acoustic noise are also discussed The final chapter is devoted to environmental protection techniques and looks at the effects of climatic environments on radio interference as well as the effects of the environment on the human operator This monograph will be of value to materials scientists and electronics engineers as well as those engaged in the design development and production of professional and military equipment *Environmental Testing Techniques for Electronics and Materials* Geoffrey W. A. Dummer,Norman B. Griffin,1962-01-01 Environmental Testing Techniques for Electronics and Materials focuses on environmental testing that is vital in evaluating the performance of electronic equipment components and materials This book discusses the climatic environments and world wide operations of equipment in hot cold and humid areas of the earth as underdeveloped countries use more and more electronics and associated equipment The environmental evaluation of products in exporting which is an essential preliminary to successful sales in third world countries are also described This text likewise describes considerable experiences obtained in the military fields of vibration shock and satellite environments This publication is valuable to specialists and individuals engaged in the design development and production of professional and military equipment Electronics ,1945 June issues 1941 44 and Nov issue 1945 include a buyers guide section **Electronics Use in Harsh Environments** Rajan Ambat,Nando Kaminski,Bálint Medgyes,2025-09-01 Today all

industrial sectors use power electronic systems and high power devices They face significant humidity and gaseous exposure related corrosion issues in harsh environments Electronics Use in Harsh Environments Challenges and Perspectives provides a state of the art review on environmental reliability issues in electronics in different technological applications due to exposure in harsh environments This is an important issue today in relation to both high power electronics and low voltage applications as well as in connection with their use in various industrial sectors such as wind energy solar automotive transport and consumer electronic sectors The book takes an application based approach and covers environmental reliability studies in power electronics systems and components Chapters focus on current applications environmental reliability issues and remedial measures that are available Relevant issues related to electronic processing material use and corrosion issues failure mechanisms due to high voltage and thermal incidents caused by corrosion issues are also discussed in detail The book will be a valuable reference source for academic and industrial researchers materials scientists and engineers as well as corrosion specialists and all those involved in electronic reliability studies and electrification issues in transport consumer goods and energy sectors Focuses on humidity and corrosion induced failures in electronic applications Discusses important component level problems such as IGBTs integrated circuits mechanistic aspects and material and process related issues Highly interdisciplinary field with contributions from authors in different scientific backgrounds such as electronics materials and corrosion

Lok Sabha Debates India. Parliament. Lok Sabha,1903 Proceedings of the ...

IEEE International Symposium on Electronics and the Environment ,2002 *A Functional Description of the Edvac [an Automatically-sequenced Serial Binary Electronic Digital Computer* Moore School of Electrical Engineering,1949 Green Electronics/Green Bottom Line Lee H Goldberg,1999-11-05 Environmentally safe engineering is one of the hottest and most controversial topics in technical circles Though many publications offer theory and intellectual discussion of the topic this book provides practical hands on advice including hints and tips from the nation s top engineers Green Electronics Green Bottom Line offers practical advice for engineers and managers who want or need to incorporate environmental issues into the design process The emerging discipline of Design for the Environment DfE combines engineering know how with environmental awareness Topics include international policy issues such as ISO 14000 materials selection e g for recyclability manufacturing concerns like no flux processes and design issues such as power consumption Real world cases show how these elements can be included in everyday designs Each chapter opens with a topical cartoon and lively story interview or editorial The discussion will then move to specific engineering issues and their economic and social context The last section explores larger possibilities and new directions still to be explored by engineers concerned with education health and environmental quality Contributors include engineers from Motorola Analog Devices Dupont Compaq Nortel AMD and Apple Computer and academics from universities in the US Canada the UK and Europe as well as the Rocky Mountain Institute An everyday guide to environmentally sound electronics design Contributors include top engineers from the biggest

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Permuted Index to IRE (IEEE) Transactions on Military Electronics, 1957-1964 ,1966 **Green Electronics Manufacturing** John X. Wang,2012-07-25 Going green is becoming a major component of the mission for electronics manufacturers worldwide While this goal seems simplistic it poses daunting dilemmas Yet to compete effectively in the global economy manufacturers must take the initiative to drive this crucial movement Green Electronics Manufacturing Creating Environmental Sensible Products provides you with a complete reference to design develop build and install an electronic product with special consideration for the product s environmental impacts during its whole life cycle The author discusses how to integrate the state of the art technologies of finite element method FEM modeling simulation and testing to create environmental sensible products of satisfying global environmental regulations such as Restriction of Hazardous Substances ROHS compliance He covers enabling techniques such as advanced fatigue life modeling crack propagation analysis and probabilistic robust design of lead free electronics The book also explores how risk engineering methodology empowers practitioners with effective tools such as buckling analysis of tin whiskers With its emphasis on reducing parts rationing materials and reusing components to make products more efficient to build green electronics intertwines today s electronics with manufacturing strategies of global sourcing concurrent engineering and total quality Implemented through product and process design it can help you achieve sustainability to support future generations and at the same time preserve our natural resources Green Electronics Manufacturing Creating Environmental Sensible Products gives you the tools to create environmental sensible products while maintaining electronics quality and reliability **Signal** ,1993 *Nucleonics* ,1964

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