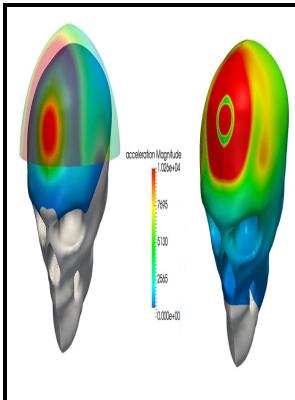


# Reliability by design - CAE techniques for electronic components and systems

Wiley - A Guide to Reliability Prediction Standards & Failure Rate



Description: -

- Earthworms -- Ontario

Electronic apparatus and appliances -- Reliability. Reliability by design

- CAE techniques for electronic components and systems

- Reliability by design - CAE techniques for electronic components and systems

Notes: Includes bibliographical references (p. [263]-266) and index.

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Tags: #The #Principles #and #Process #of #Electronic #Component #Selection #(part

## The Principles and Process of Electronic Component Selection (part

It is comprehensive and up-to-date, embracing both traditional mature modeling and prediction methods, and new emerging techniques. A wide array of tools are available for the reliability engineer to uncover product weaknesses, predict life and manage the reliability improvement efforts.

## The Principles and Process of Electronic Component Selection (part

What is important for designers to realize is how electrical systems fail. This is known as Failure Effect Evaluation. Therefore, these organizations are starting to put more emphasis on the separate, although often complementary, techniques of Design for Reliability.

## 5 System Design for Reliability

Advance in this field will have great impact on software industry. The field has matured to the point that software models can be applied in practical situations and give meaningful results and, second, that there is no one model that is best in all situations. Failure mechanisms are the processes by which specific combinations of physical, electrical, chemical, and mechanical stresses induce failure.

## Design for Reliability: Overview of the Process and Applicable Techniques

Typically, this can range from 80C to 150C. The list of important environmental attributes is given below. Typical to a discussion of reliability is the concept of the bathtub curve.

## Does a 10°C Increase in Temperature Really Reduce the Life of Electronics by Half?

Publishing: Papers will be published in IEEE Xplore and in the SEMI-THERM Technical Library immediately following the symposium.

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