1 Introduction, Definitions & Overview

Reliability

- ... is a characteristic of an item, expressed by the probability that the item performs its required function under given conditions <u>during</u> a stated time interval, i.e. $(0, t]$

- Item = entity for investigation, i.e. component, assembly, equipment, subsystem, system

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2 Probability Theory and Reliability Analysis

Definitions:

- Experiment ϵ

- Sample space Ω

- Event E

An event E is a subset of the sample space Ω and the experiment ε yields a set of possible outcomes $(= E)$ of the experiment

Certain Events

Uncertain Events