

Fundamental Concepts

The basic measures are:

- Reliability
 - $R(t)$
 - defined as the probability of its correct operation up to time t given that the system was operating correctly at time $t=0$
- Mean time to failure (MTTF)
 - mean time to repair (MTTR) is the average time it takes to repair or replace a faulty element
- Availability
 - defined as the fraction of time the system is available to service users' requests