

Reliability

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1 Failure

1.1 Concepts

- RUL \rightarrow Remaining use of life, the remaining time the system can run before a failure.
- MTTF \rightarrow Mean time to fail, the average between the start of the first failure and last among all of the systems.
- MTTR \rightarrow Mean time to repair
- MTBF \rightarrow Mean time between failure

$$\text{MTBF} = \text{MTTF} + \text{MTTR}$$

2 Reliability Block Diagram