Reliability engineering

Reliability engineering is engineering that addresses the ability of a system or component to perform its intended functions under stated conditions for a specified period of time. It involves the prediction, assessment, and enhancement of the reliability of systems and products. Reliability engineering is an interdisciplinary field that integrates principles from mathematics, statistics, physics, and engineering to develop reliable systems and processes.

Further information: Software Reliability

The ASQ Reliability Division is the largest group in the world promoting reliability excellence and knowledge sharing. They offer membership, webinars, and resources to support professionals in reliability engineering.

Handbook of Reliability Prediction Procedures for Mechanical Equipment

Eagle the Carderock Handbook and was issued by the Navy in 1992 as NSWC.

Rotork Sweden Order dated 2014-07-11 (N5) NSWC.


The useful life of a device is guaranteed as 2.3 years at 24 hrs/day, 7 days/week, 356 days/year. The positive logic, you can use RDB, Fault Tree Analysis (FTA), The MIL-217, NSWC Handbook of Reliability Prediction Procedures.

R11: Store. • R12: Service/Repair R11: Store caused by systems, procedures, or management and only 15% NSWC-06/LE10: reliability of mechanical equipment MIL-HDBK-217F: MILITARY HANDBOOK RELIABILITY PREDICTION.
This paper begins with a brief history of reliability prediction of electronics and a need for a method to estimate reliability before the equipment was built and tested. All reliability predictions were based on this handbook, and all other sources of the NSWC Crane Division recognize that MIL-HDBK-217 is known.