

Title: System Level Reliability

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Abstract

We expect every product is reliable. Corporate relies on product with reliable and good quality to satisfy customers, builds up reputations, make and gain revenues and profits. Reliability is always a concern during the product life cycle. This tutorial introduces reliability in system level. It describes the procedures and tasks from product realization to end user, i.e., design review, assessment, simulation, measurement, operation, and continuously improvement. A “body” is formed with standards so the whole processes are in the control. All reliability and other areas relevant to the business are monitored and methods are in places. The typical reliability concepts such as testing, DFR, MTBF, FIT, bath tub, and software based DRE are illustrated. As an effective tool to support reliability, failure analysis thoughts and skills are stated as well.

Biography

Geny Gao has 15+ years of experience in Reliability, Quality Control, Quality Assurance, Failure Analysis, and product management. She has worked for Intel, EMC, PNY, etc. and managed a number of Q/R issues during product life cycle. Geny is a certified ISO 9001 auditor and helped a couple of companies getting ISO certificates. She holds BS in Physics, MS in Electrical Engineering, Ph.D. in Applied Physics, and MBA in general business management. Geny authored and co-authored several publications in ISTFA, IEEE Reliability conferences, and owns 8 US patents. She is a member of EDFAS, IEEE, AQS, and OSA. Her interests are playing musical instrument and Bridge.

