

FAULT TOLERANT & REAL TIME SYSTEM

Fault detection and diagnosis, System Reliability and methods of improving it. Theory of Redundant System design. Fault tolerant circuit design. Fault tolerant architectures.

Components of a real time system. Real time operating system, tasks and task scheduling, task synchronization and data transfer factors in selecting a real time operating system. The design specifications, the development environment, ASM Diagram and Data flow analysis. Response time specification.

BOOKS:

1. "Real Time System"-C.M. Krishna and Kang G.Shin, Mc Graw Hill International Edition.
2. "Software Design for Real Time Systems"-J.E.Cooling, Chapman & Hall Publication.