Notes in ECEN 5623

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Announcements

Need slides on 5/4 11:59 pm.
exercise 6 parts 3 and 4 are due on 4/25
part 5 and 6 are due on the 5th of May.

Lecture

RASM
Reliability, Availability, Serviceability, and Maintainability

Availability: five 9's, 99.999% of the time you should be available. Can be down 5 minutes and 16 seconds per year.

Hardware: test stuff for temperature, radiation, electrostatic discharge

Firmware: hardware fault injection and simulation
Firmware: Hardware and software integration

Software: whitebox, black box, test exit requirements. system level tests, regression testing.

FMEA testing:
cost of a failure, probability it happens and time it takes to fix.