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MIL-STD-1553 OVERVIEW

I INTRODUCTION TO MULTIPLEXING & MIL-STD-1553

- What is MIL-STD-1553?
- Integration Considerations
- Historical Development
- Key Elements of MIL-STD-1553

II MIL-STD-1553 ENCODING & FORMATS

- Data and Sync Encoding
- Word Formats
- Message Formats

III MIL-STD-1553 PROTOCOL

- Assigned Mode Commands
- Message Integrity

IV HARDWARE DESIGN

- Data Bus Characteristics
- Stub Connections
- Terminal Characteristics

V SYSTEM DESIGN

- Data Bus Topology
- Data Bus Control
- Partitioning & Redundancy
- Bus Loading

VI SOFTWARE DESIGN

- Bus Controller Software
- Synchronous Message Timing

VII TESTING

- Phases of Testing
- Test Plans
- RT Validation Testing