



AV Design Level 3: Applied Design

Digital Signals

- Analog vs. Digital Signals
- Digital Signals

Digital Video

- Video Signal Types
- Digital Video Formats
- DisplayID/EDID
- Designing for EDID
- Digital Rights Management
- Getting Here to There

Audio

- Analog vs. Digital Audio
- Audio Transport Methods
- DSP Architecture Types
- Signal Monitoring
- Setting Up the System
- Introduction to Equalization
- Parametric Equalizers: Filters
- Graphic Equalizers
- Other Filters
- Getting From Here to There

Control

- Designing for the Human
- Control Systems Design

Networking

- Network Device Inventory
- Networking Components
- The OSI Model
- Network Connections
- Ethernet
- Internet Protocol (IP)
- Address Assignment
- Transport Protocol



AV Data Link Protocols

Streaming

- Streaming Needs and Tasks
- Streaming and the Network Environment
- Streaming Delivery and Protocols
- Unicast and Multicast

Security

- IT Security for AV Applications
- Identify Security Requirements
- Risk Registers
- Mitigation Plans