Essentials of AV Technology

Introduction to AV Systems

Introduction to AV Systems

Analog and Digital Signals
Defining Analog and Digital Compression and Transmission

Networking and Data for AV

Networking and Data for AV
Defining a Network
Network Connections
OSI Reference Model
Network Interfaces
Internet Protocol
Network Addressing
Network Components

Visual Systems

Vision and Light
The Science of Light
Measuring Light
Behavior of Light
Color
Light and AV Applications

Capturing an Image
Capturing an Image

Video Signal Types
Intro to Video Signals
Compresses Video Signals
Decoding Video Signals

Computer Display Characteristics
Computer Display Characteristics

Producing and Image
Producing and Image
Display and Projection Technologies
- Display and Projection Technology
- Legacy Technology
- Current Display Technologies

Screens

Perceived Quality
- Perceived Quality

Audio Systems

Hearing and Sound
- The Science of Sound
- Human Perception of Sound

Acoustics

Capturing Sound
- Microphone Types
- Microphone Specifications
- Microphone Signal Transport

Audio Signal Levels

Audio Components

Loudspeakers

Audio Signal Level Monitoring

Audio System Applications

AV System Infrastructure

Control Systems
- Introduction to Control Systems
- Types of Control Signals
- Net-Centric Control
Electrical Systems
   The Science of Electricity
   Electrical Circuits

Signal Management Systems
   Signal Management Systems

Radio Waves
   Radio Waves

Customer Service and Future AV Trends

Customer Service
   Customer Service

Future AV Trends
   Future AV Trends