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| Nota di contenuto | Closed Circuit Television; Copyright page; Contents; Preface; Acknowledgements; Chapter 1: The CCTV industry; The role of CCTV; The CCTV industry; Chapter 2: Signal transmission; CCTV signals; Co-axial cable; Ground loops; Twisted pair cable; Structured cabling; Power over Ethernet; Ribbon cable; Fibre-optic cable; Infrared beam; Microwave link; UHF RF transmission; CCTV via the telephone network; Connectors; Cable test equipment; Chapter 3: Light and lighting; Light and the human eye; Measuring light; Light characteristics; Artificial lighting; Chapter 4: Lenses; Lens theory; Lens parameters Zoom lensesElectrical connections; Lens mounts; Filters; Lens adjustment; Lens finding; Chapter 5: Fundamentals of television; Producing a raster; Picture resolution; Synchronization; The luminance signal; The chrominance signal; Television signals; Digital video signals; Video compression; MPEG-2 compression; MPEG-4 compression; Wavelet compression; Common interchange format (CIF); ITU-T recommendations; Chapter 6: The CCTV camera; Charge coupled device; CCD chip operation; Electronic iris; IR filters; Colour imaging; Camera operation; White balance; Back light compensation Colour/mono camerasCamera sensitivity; Camera resolution; Camera operating voltages; Specialized cameras; Covert cameras; 360° cameras; Number plate recognition cameras; Chapter 7: Video display |

equipment; The cathode ray tube; The colour CRT; CRT monitors; Monitor safety; Liquid crystal displays (LCDs); Plasma display panels (PDPs); Projection systems; Termination switching; Resolution; Ergonomics; Chapter 8: Video recording equipment; Digital video recorders (DVRs); DVR principle; Effects of compression; Recording capacity; RAID disk recording; Digital video information extraction
VHS recordingTime-lapse recording; VCR maintenance; Video head cleaning; Tape management and care; Digital video tape; Chapter 9: Camera switching and multiplexing; Sequential switching; Matrix switching; The quad splitter; Video multiplexers; Video motion detection (VMD); Chapter 10: Telemetry control; Control data transmission; Pan/tilt (P/T) control; Receiver unit; Dome systems; Data communications; Chapter 11: CCTV over networks; Network topology; Network hardware; Network communications; IPv4 classes; Reserved addresses; Subnetting; Assigning IP addresses; Manually assigned IP addresses
Address resolution protocol (ARP)Autoconfiguration; Domain name service (DNS); Ports; Other network protocols; IPv6; Network diagnostics; CCTV over a network; Network CCTV example; Integrating analogue cameras; Summary; Chapter 12: Ancillary equipment; Camera mountings; Towers and columns; Pan/tilt units; Monitor brackets; Power supplies; Voltage drop; Chapter 13: Commissioning and maintenance; Commissioning; Measuring resolution; System handover; Preventative maintenance; Corrective maintenance; Fault location; Oscilloscope default settings; Glossary of CCTV terms; A; B; C; D; E; F; G; H; I
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Sommario/riassunto

Closed Circuit Television (CCTV) surveillance remains a growing industry in response to increased security threats, and whilst new developments have brought clearer images, digital recording and high speed data transmission, effective security systems still rely upon proper specification and installation by engineers with an in depth knowledge of CCTV principles and technology.The third edition of Closed Circuit Television provides a thorough technical guide for all those involved in the design, specification, installation and maintenance of CCTV systems. Fully dual-standard for PAL an