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This introduction to circuit design is unusual in several respects. First, it

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the circuit's operation in a way that is deeper and much more satisfying than the manipulation of formulas. Second, it describes circuits that more traditional engineering introductions would postpone: on the third day, we build a radio

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receiver; on the fifth day, we build an operational amplifier from an array of transistors. The digital half of the course centers on applying microcontrollers, but gives exposure to Verilog, a powerful Hardware Description Language.

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over a metropolitan area at comparatively high data rates with simple protocols. With some characteristics of local area networks and wide area networks, the metropolitan area network (MAN) technology reflects the best features of

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both. The motivations for MAN technology include

- o interconnection of LANs
- o high-speed services
- o integrated services.

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- Filetransfer
- Distributed processing
- Remote services
- Remote

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