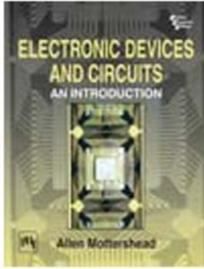


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Electronic circuits differ from electric circuits in that they use devices that can themselves be controlled by other electric signals. Restated, electronic circuits are built from devices that use electricity to control electricity. Most electronic circuits use signals that are within 5 to 10 volts of ground; most circuits built within the past several years use signals that are within 3 to 5 volts from ground.Â

Serving much the same purpose as blueprints for a building, a circuit schematic shows all devices in the circuit, and all signal and power connections between the devices. A schematic can be sketched, analyzed, debated, re-sketched, and iterated as many times as needed before the more cost and time intensive task of building a real circuit begins. Unit introduction. Electronics and electronic devices are used in a huge variety of manufactured products. From everyday popular items such as cameras and thermometers to the robotic welding machines used in industry, the use of electronics is continually growing. This unit provides a practical introduction to basic electronic devices and analogue and digital electronic principles.Â

Learners will then go on to build and test circuits that make use of these devices and will consider the operation of integrated circuits such as the operational amplifier. Logic gates and flip-flops are also investigated both in practice and by using simple electronic principles, such as voltage gain or truth tables. Introduction to Electronic Engineering. 2 Electronic Circuits 2.1 Circuit Composition 2.2 Amplifiers 2.3 Supplies and References 2.4 Switching Circuits. Contents. 69 69 78 100 118.Â

Electronics is a science about the devices and processes that use electromagnetic energy conversion to transfer, process, and store energy, signals and data in energy, control, and computer systems. This science plays an important role in the world progress.