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Electronic Devices and Circuit Theory | Semiconductor

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Electronic Devices and Circuit Theory – Robert L. Boylestad (born 1939) was professor emeritus of electrical and computer technology at Queensborough Community College, part of the City University of New York, and was an assistant dean in the Thayer School of Engineering of Dartmouth College. Their work “ Electronic Devices and Circuit Theory ” is a university level text that is currently in its 11th edition (April 30, 2012) and which was initially published in 1972.

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Difference Between Electrical and Electronic Devices

The major difference between the electrical and electronic devices is that the electrical devices convert the electrical energy into the other form of energy like heat, light, sound, etc. whereas the electronic device controls the flow of electrons for performing the particular task. The other differences between the electrical and electrical devices are illustrated below in the comparison chart.

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An electronic circuit is composed of individual electronic components, such as resistors, transistors, capacitors, inductors and diodes, connected by conductive wires or traces through which electric current can flow. To be referred to as electronic, rather than electrical, generally at least one active component must be present. The combination of components and wires allows various simple and complex operations to be performed: signals can be amplified, computations can be performed, and data

Electronic circuit - Wikipedia

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He has previously authored seven books published by Prentice Hall: Power Electronics-Circuits, Devices, and Applications (1988, 2/e 1993), SPICE For Power Electronics (1993), SPICE for Circuits and Electronics Using Pspice (1990, 2/e 1995), Electromechanical and Electrical Machinery (1986), and Engineering Design for Electrical Engineers (1990).

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