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Thyristors are the family of solid-state devices extensively used in power electronics circuitry such as SCR (silicon-controlled rectifier), DIAC (diode on AC), TRIAC (triode on AC), GTO (gate turn-off thyristors), MCT (MOS-controlled thyristor), RCT, PUT, UJT, LASCR, LASCS, SIT, SITH, SIS, SBS, SUS, SBS and etc. SCR is the oldest member and the head of this family; and usually referred with the name [thyristor].

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Low-power electronic circuits are important for portable devices. Semiconductor devices are at the heart of these circuits with MOS devices making up the majority of today's integrated circuits. In digital circuits, the MOSFET can be considered a switch, but it is a nonideal switch with an [on] resistance and limited current drive in the [on] state and a leakage or [off] current in the [off] state.

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"Power Electronics: Devices, Circuits, and Industrial Applications provides an exhaustive coverage of various power electronic devices, with emphasis on the thyristor. The characteristics of modern power semiconductor devices such as the power transistor, MOSFET, and IGBT are also discussed.

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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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The use of the term ground (or earth) is so common in electrical and electronics applications that circuits in portable electronic devices such as cell phones and media players as well as circuits in vehicles may be spoken of as having a "ground" connection without any actual connection to the Earth, despite "common" being a more appropriate term for such a connection.

[Ground \(electricity\) - Wikipedia](#)

Power electronics is the application of solid-state electronics to the control and conversion of electric power. The first high power electronic devices were mercury-arc valves. In modern systems, the conversion is performed with semiconductor switching devices such as diodes, thyristors, and power transistors such as the power MOSFET and IGBT. In contrast to electronic systems concerned with transmission and processing of signals and data, in power electronics substantial amounts of electrical

[Power electronics - Wikipedia](#)

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