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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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Ground (electricity) -

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Power electronics is the application of solid-state electronics to the control

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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

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