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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

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Power electronics - Wikipedia

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Power electronics converters are widely used in myriad power conversion applications from fraction of volt and power to tens of thousands of volts and power levels. Sometimes it involves multistage power

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conversion with two or more converters connected in series/parallel or in cascade fashion.

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## Power Electronics Converters—An Overview - ScienceDirect

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## Application of Power Electronics | Electrical4U

This title focuses on the study of both classical and power conversion electronic circuits, and their wide variety of applications in electronic equipment. It explains power converters that are used in all mobile applications, servers and modems. ?????: Dokic, Branko L., Blanusa, Branko

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Power Electronics. Converters, Applications, and Design. 3rd Edition. Since its publication in 1989, each edition has strived to present a cohesive presentation of power electronics fundamentals for applications and design in the power range where there is demand in industry for power electronic engineers.

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