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Generally, power electronic devices based on the AlGaIn/GaN heterojunction structure have the following four advantages: (1) the 2DEG with high carrier density and high carrier mobility reduces the on-resistance of the device and hence the conductive loss of the power switch. (2) At the same output power, the device area is much smaller for GaN HEMT.

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Power Electronics - an overview | ScienceDirect Topics

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Power electronics - Wikipedia

6.334 examines the application of electronics to energy conversion and control. Topics covered include: modeling, analysis, and control techniques; design of power circuits including inverters, rectifiers, and DC-DC converters; analysis and design of magnetic components and filters; and characteristics of power semiconductor devices. Numerous application examples will be presented such as ...

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PWM is a technique that is used to reduce the overall harmonic distortion (THD) in a load current. It uses a pulse wave in rectangular/square form that results in a variable average waveform value  $f(t)$ , after its pulse width has been modulated. The time period for modulation is given by  $T$ . Therefore ...

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