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@article{osti_5627166, title = {Power electronics: Devices, drivers and applications}, author = {Williams, B.W.}, abstractNote = {This book bridges the gap between semiconductor device theory and device application in the area of power electronics. Part 1 covers power device electrical and thermal characteristics and how they relate to a device's physical structure.

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Power electronics plays an increasingly important role in the electrified vehicle applications. The power electronics provide compact and high-efficient solutions to power conversion. The Tesla model S is a typical example. Its electrified powertrain architecture is shown in Fig. 23.1.

Power Electronics: Devices, Drivers, Applications, and ...

The Basics of Power Semiconductor Devices: Structures, Symbols, and Operations June 13, 2015 by Editorial Team This technical article is dedicated to the review of the following power electronics devices which act as solid-state switches in the circuits. These act as a switch without any mechanical movement.

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Part 2 describes device driving and protection, while part 3 presents a number of generic applications. The final part, Part 4, introduces capacitors, magnetic components, and resistors, and their characteristics relevant to power electronic applications.

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[PDF] APPLICATION OF POWER ELECTRONICS TO POWER SYSTEM

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Applications of power electronics range in size from a switched mode power supply in an AC adapter, battery chargers, audio amplifiers, fluorescent lamp ballasts, through variable frequency drives and DC motor drives used to operate pumps, fans, and manufacturing machinery, up to gigawatt-scale high voltage direct current power transmission systems used to interconnect electrical grids. Power electronic systems are found in virtually every electronic device.

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POWER ELECTRONICS Devices

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4. Synchronous high-power buck LED driver. LEDs have proliferated through countless applications and across all markets over the course of this decade (Fig. 1).As the LED market has reached economies of scale, applications once dominated by traditional incandescent lighting are now utilizing many key features of LED technology—high efficiency, high brightness, precise control of light, vast ...

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Power Electronics: Devices, Drivers and Applications | B ...

Applications of power electronics in automotive electrical and electronic systems includes high voltage systems, automotive power generation, switched mode power supply (SMPS), DC to DC converters, electric drives, traction inverter or DC to AC converter, power electronic component, high temperature requirement, application of SMPS in power train system, and so on.

Power electronics - Wikipedia

Part 1 covers power device electrical and thermal characteristics and how they relate to a device's structure; part 2 describes device driving and protection techniques; part 3 covers power electronic applications and part 4 is the new section on passive components - capacitors, soft magnetic materials, and resistors.

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Power Electronics: Devices, Drivers and Applications [B.W. Williams] on Amazon.com. *FREE* shipping on qualifying offers. Provides a wide range of indepth coverage of both semiconductor device theory and device application in power electronics. Material covered gives the reader a sound appreciation of the device types