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variable-speed motor drives benefit pumps and blowers from the energy curves that depict their performance. ... VFDs outfitted with regenerative capabilities can take energy used to brake the motor and recycle it back to the power line. Page 2 of

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a semiconductor device used as a



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switch or rectifier in power electronics (for example in a switch-mode power supply). Such a device is also called a power device or, when used in an integrated circuit, a power IC.. A power semiconductor device is usually used in "commutation

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mode" (i.e., it is either on or off),  
and therefore has a design  
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Examinations, November 2008  
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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 ...

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describes fundamentals common to all electrical drives: DC drives fed by controlled rectifiers and choppers; squirrel-cage induction motor drives controlled by AC voltage controllers, inverters, and cycloconverters; slip-power controlled wound-rotor induction

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motor drives; and inverter and  
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This book presents power  
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employing dc motors, induction motors, and synchronous motors. The dynamics of motor and load systems are covered. Open-loop and closed-loop drives are considered, and thyristor, power transistor, and GTO converters are discussed.

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Power semiconductor controlled drives by G. K. Dubey, 1989, Prentice Hall edition, in English

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Power Electronics for Drives and  
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Although the principles of PWM

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drives are not new, advances in power semiconductors, control electronics, and microprocessors have increased their popularity. Adding to this are vector control methods that give the AC drive the capability and flexibility of a full DC motor drive. Fig. 1.

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Essential elements of a PWM  
motor drive. PWM MOTOR DRIVES

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Power Electronics for Drives and  
Generators 585 Fig. 7(a): Single  
Phase full converter Fig. 7(b):

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Waveform 6. DC chopper Drives A chopper circuit is used to refer to numerous types of electronic switching devices and circuits. Control of a dc motor speed by a chopper is required where the supply is

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