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A power semiconductor device is a semiconductor device used as a switch or rectifier in power electronics. 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 mode", and therefore has a design optimized for such usage; it should usually not be used in linear operation. Linear power circuits are widespread as voltage regulators, audio amplifiers, and radio frequency amplifiers. Power semicondu

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Encouraged by the response to the first edition and to keep pace with recent developments, Fundamentals of Electrical Drives, Second Edition incorporates greater details on semi-conductor controlled drives, includes coverage of permanent magnet AC motor drives and switched reluctance motor drives, and highlights new trends in drive technology.

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Compared to previous generations of MV drives, GE Industrial Systems sees customer benefits, such as unity power factor (PF=1), high output frequencies, lower harmonics, and lower installed cost coming from MV drives that use the latest power switches. Its regenerative PWM drives offer the added benefit of VAR (volt-amperes reactive) control. This type of drive can produce a leading or lagging VAR component to help offset opposing VARs produced by other ac equipment in a customer's plant ...

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An insulated-gate bipolar transistor (IGBT) is a three-terminal power semiconductor device primarily used as an electronic switch which, as it was developed, came to combine high efficiency and fast switching. It consists of four alternating layers (P-N-P-N) that are controlled by a metal-oxide-semiconductor (MOS) gate structure without regenerative [clarification needed] action.

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Urged by the reaction to the primary version and to stay up with ongoing turns of events, Fundamentals of Electrical Drives, Second Edition joins more noteworthy subtleties on semi-transmitter controlled drives, incorporates inclusion of perpetual magnet AC engine drives and exchanged hesitance engine drives, and features new patterns in drive innovation.

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