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controlled drives 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.

Power electronics - Wikipedia

Over the last four decades, power electronics technology has reduced VFD cost and size and has improved performance through advances in semiconductor switching devices, drive topologies, simulation and control techniques, and control hardware and software. VFDs are made in a number of different low- and medium-voltage AC-AC and DC-AC topologies.

Power Semiconductor Controlled Drives - G. K. Dubey ...

This textbook introduces students to the underlying principles of operation of power semiconductor drives. It explains every facet of application of power electronics to the control of electric motors in industrial drives.

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Because of the high switching frequency and more efficient operation, power transistors have succeeded in replacing thyristors in a number of low and medium power (up to around 200 kW) drives employing inverters and choppers.

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Power Electronics®

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